

The background image is a close-up photograph of a truck's front wheel and a manhole cover. The wheel is on the left, showing a silver rim and a black tire with 'MITECH' written on the sidewall. The manhole cover is on the right, made of a rusty metal with a circular pattern of raised, elongated rectangular ridges. A red rectangular box with white text is overlaid on the right side of the image.

# Manhole Covers CO 600

# How to choose the right product? (1)

As per EN 124 all these areas are load class D400!

**Highway**



> 29.000 vehicles per day  
~30% truck share

**Residential area**



< 1.000 vehicles per day  
< 2% truck share

**Industrial area**



> 3.000 vehicles per day  
~80% truck share

**Commercial area**




> 4.000 vehicles per day  
~5% truck share

**Load class D400**

## How are these areas classified?

The german guideline for standardization of superstructures (**RStO**) contains a classification of roads depending on the different amount of 10-t axle transmissions.  
Using this model it's possible to separate the areas of application for the cast iron portfolio of **ACO Passavant Guss**.

Road and Transportation Research Association  
Working Group Infrastructure Management



Guidelines for the standardisation of pavement structures of traffic areas

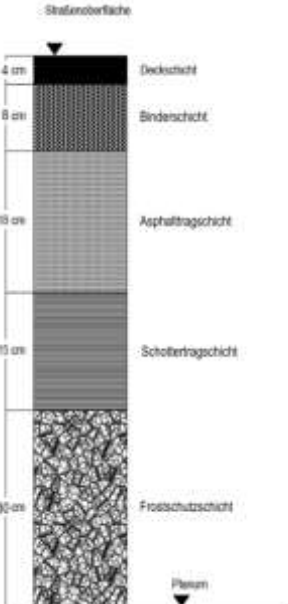
**R 1**

**RStO 12**

Edition 2012  
Translation 2015

Million of equivalent 10-t axle transmissions	>32	BK100
	<32	BK32
	<10	BK10
	<3.2	BK3.2
	<1.8	BK1.8
	<1.0	BK1.0
	<0.3	BK0.3

Strassenoberfläche


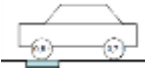


4 cm Deckschicht  
6 cm Bindenschicht  
10 cm Asphalttragschicht  
10 cm Schottertragschicht  
30 cm Frostschuttschicht  
Planum

# How to choose the right product? (2)



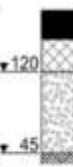







What is the traffic load ?



1 x  = 67.667 x 

1 truck has the same impact than 68.000 cars !  
(You will find a detail calculation in Chapter „Compendium“)

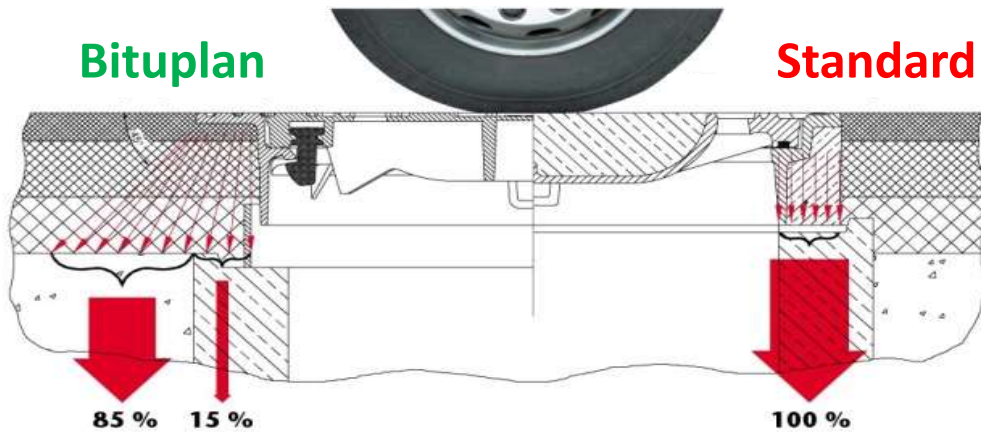
Right load class = road construction

Line	Load class	BK100				BK32				BK10				BK3.2				BK1.8				BK1.0				BK0.3			
	B [million of ESALs]	> 32				> 10 – 32				> 3.2 – 10				> 1.8 – 3.2				> 1.0 – 1.8				> 0.3 – 1.0				≤ 0.3			
	Thickness of frost resistant pavement structure <sup>1)</sup>	55	65	75	85	55	65	75	85	55	65	75	85	45	55	65	75	45	55	65	75	45	55	65	75	35	45	55	65
1	Asphalt base course on frost blanket course																												
	Asphalt surface course	12				12				12				10				4				4				4			
	Asphalt base course	22				18				14				12				16				14				10			
	Frost blanket course	45				45				45				45				45				45				45			
	Thickness of frost blanket course	–	31 <sup>2)</sup>	41	51	25 <sup>3)</sup>	35	45	55	29 <sup>3)</sup>	39	49	59	–	33 <sup>3)</sup>	43	53	26 <sup>3)</sup>	35	45	55	27	37	47	57	21	31	41	51
		heavy								mid								low											
																													

ACO Range Solution

# How to choose the right product? (3)

## How to choose the right frame?

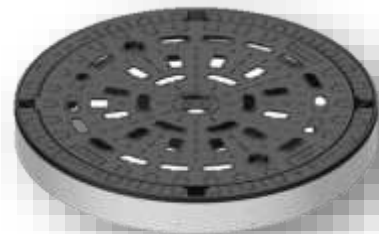


Less load into the concrete shaft:



### The Bituplan frame

All time equivalent conditions between the frame and the surrounding asphalt is the perfect definition for the ACO Passavant Guss Bituplan frame. In respect of increased traffic volumes and the demand after a high durability, Bituplan is always the right solution.



### The Lift frame

The combination of cast iron and concrete is a long-time proven solution in the field of standard installations of manhole covers. The concrete used for the frame corresponds to compressive strength class C 35/45 is conforming to the highest classification of exposure conditions with freeze-thaw and de-icing resistance.



### The fix frame

A single frame that fits to the most of the given conditions in infrastructure installations is the fix frame. Not only mortared, but additionally fixed onto the top of the manhole shaft is this frame the most taken solution for urban areas.

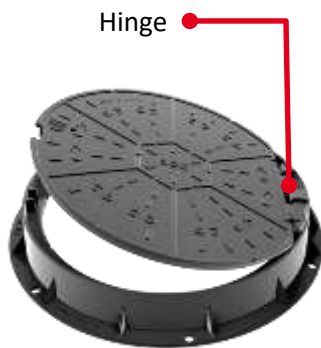
# How to choose the right product? (4)

## How to choose the right cover?

Good

### CityTop Q(+)

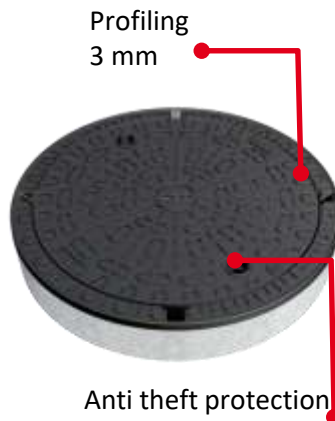
- light cover weight 23/25kg
- (+) version: Simple cushioning insert PE-LD
- Hinge possible



Better

### CityTop S

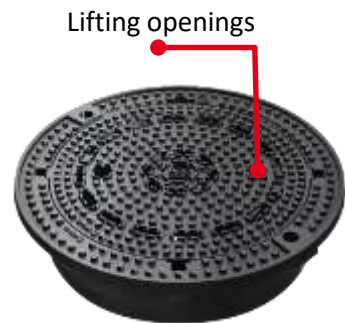
- Middle weight cover 36/41 kg
- Robust SBR cushioning insert
- Option: Anti theft protection



Best

### CityTop P MultiTop




- Heavy weight cover 44/47kg
- Robust SBR cushioning insert exchangeable
- Long lifetime under high traffic loads
- Different frame versions



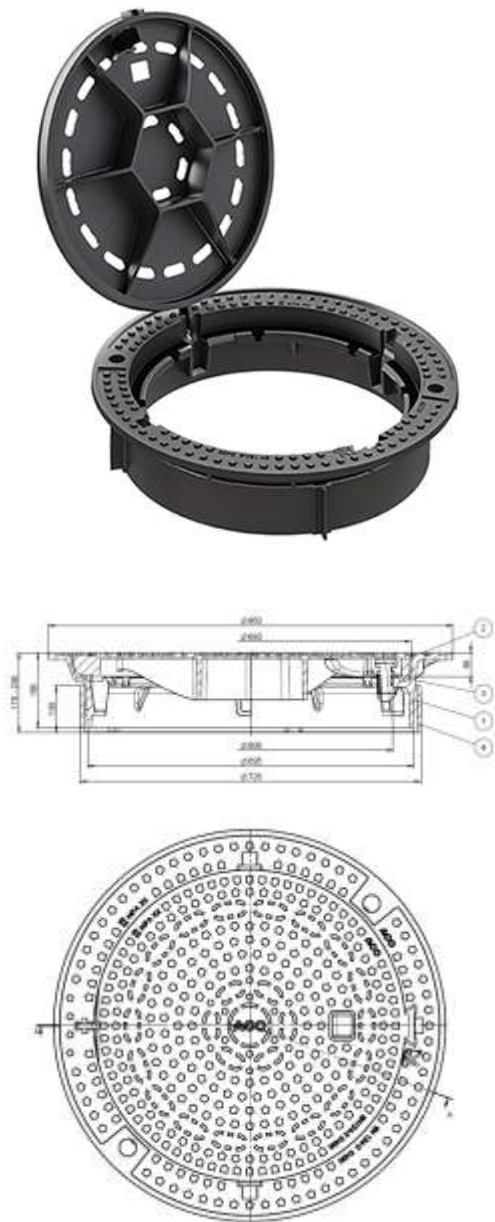
CityTop Q(+), CityTop S, CityTop P and MultiTop covers are secured within the frame with locking devices to avoid ejection and/or inappropriate movements. The screwless and exchangeable blocking devices are engineered and tested to withstand highest vertical ejection forces. Contrary to screws or cast spring bars ACO securing features assure durable and reliable operation.



# How to choose the right product? (6)

Road construction class		BK100 > 32	BK32 > 10 – 32	BK10 > 3.2 – 10	BK3.2 > 1.8 – 3.2	BK1.8 > 1.0 – 1.8	BK1.0 > 0.3 – 1.0	BK0.3 ≤ 0.3
		heavy 		mid 		low 		
Best Premium	<ul style="list-style-type: none"><li>Long life performance</li><li>Self leveling / floating frame installation (Bituplan)</li></ul>	<div><div>MultiTop:<ul style="list-style-type: none"><li>Best grip</li><li>Minimum noise impact</li><li>Cover and frame machined</li></ul></div><div>MultiTop</div></div>						
		<div><div>CityTop P:<ul style="list-style-type: none"><li>For all applications</li><li>Full range of features</li></ul></div><div>CityTop P</div></div>						
Better Standard	<ul style="list-style-type: none"><li>Good performance</li><li>Excellent value for money</li><li>Cushioning inserts</li></ul>	<div><div>CityTop S:<ul style="list-style-type: none"><li>Optimized weight</li><li>For most applications</li><li>Optional: anti-theft-device</li></ul></div><div>CityTop S</div></div>						
		<div><div>CityTop Q(+):<ul style="list-style-type: none"><li>Reduced to minimum weight</li><li>Fixed frames</li></ul></div><div>BASIC 600:<ul style="list-style-type: none"><li>Light weight cover</li><li>Theft secured Hinge</li><li>Spring bar as locking system</li><li>Simple cushioning insert</li><li>Fixed frames</li></ul></div></div>					<div><div>CityTop Q (+)</div><div>BASIC 600</div></div>	
Good Basic	<ul style="list-style-type: none"><li>Price attractive</li><li>No extra features</li><li>(+) version with cushioning insert</li></ul>							

MultiTop S Bituplan 160



Product description

**ACO MultiTop Bituplan hinged manhole cover**  
Class D 400 according to EN 124  
**MultiTop** manhole cover, round, with maintenance free securing blocking insert made of high-strength plastic, cover made of spheroidal graphite cast iron (GJS), weight approx. 38 kg  
**Bituplan** self-leveling frame, round, height 160 mm, external diameter 860 mm, max. bearing pressure 1,6 N/mm<sup>2</sup>,  
**Adapter ring** of cast iron, h100 mm total weight approx. 107 kg

Product information

- Variations**
- Black hydro-based coating
  - Logo cover
- Accessories**
- Operating tool **600643**
  - Installation shuttering **210132**

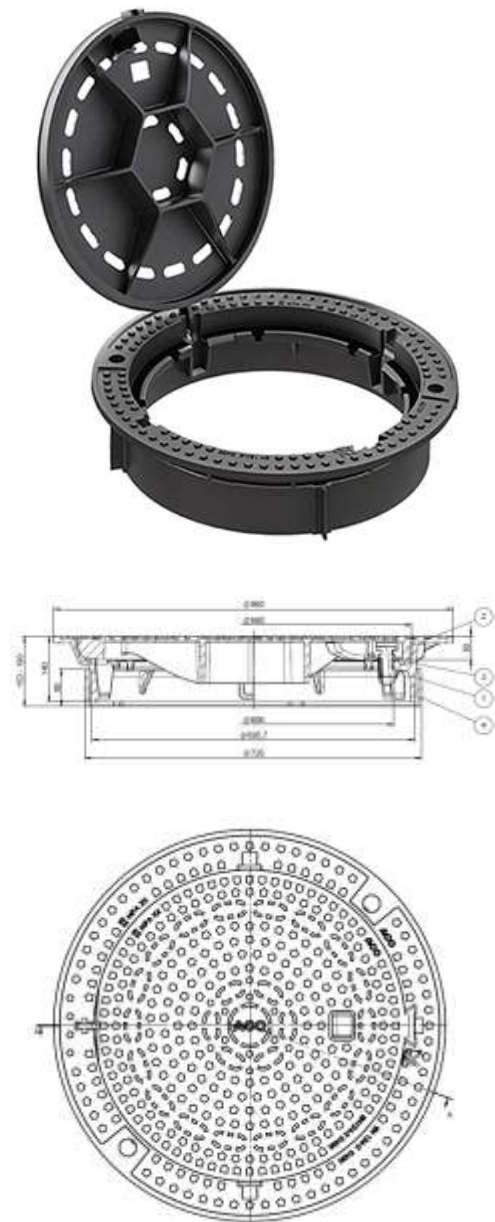
Advantages

- Self-leveling frame with a max. bearing pressure of 1,6 N/mm<sup>2</sup>
- Safe positioning of the cover due to an additional stabilization groove
- Easy installation also in case of refurbishment with the 160mm Bituplan frame
- Durable PEWEPREN cushioning insert

- ✓ **EN 124**
- ↓ **D400**
- ⊘ **605mm**
- △ **Anti slip**

Weight [kg]	Pcs / pallet	Ventilation holes	Black coating	Item-no. with adapter ring
105	5	X	-	210580
107	5	-	-	210581
105	12	X	X	1206311
107	12	-	X	1206312

MultiTop S Bituplan 140



Product description

**ACO MultiTop Bituplan hinged manhole cover**  
Class D 400 according to EN 124  
**MultiTop** manhole cover, round, with maintenance free securing blocking insert made of high-strength plastic, cover made of spheroidal graphite cast iron (GJS), weight approx. 38 kg  
**Bituplan** self-leveling frame, round, height 140 mm, external diameter 860 mm, max. bearing pressure 1,6 N/mm<sup>2</sup>,  
**Adapter ring** of cast iron, h100 mm total weight approx. 101 kg

Product information

- Variations**
- Black hydro-based coating
  - Logo cover
- Accessories**
- Operating tool **600643**
  - Installation shuttering **210132**

Advantages

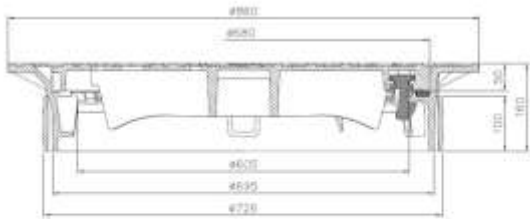
- Self-leveling frame with a max. bearing pressure of 1,6 N/mm<sup>2</sup>
- Safe positioning of the cover due to an additional stabilization groove
- Easy installation also in case of refurbishment with the 160mm Bituplan frame
- Durable PEWEPREN cushioning insert

- ✓ **EN 124**
- ↓ **D400**
- ⊘ **605mm**
- △ **Anti slip**

Weight [kg]	Pcs / pallet	Ventilation holes	Black coating	Item-no. with adapter ring
100	5	X	-	210590
102	5	-	-	210591
100	16	X	X	1206313
102	16	-	X	1206314



MultiTop Bituplan 160



Product description

**ACO MultiTop Bituplan manhole cover**  
Class D 400 according to EN 124  
**MultiTop** manhole cover, round, with two maintenance free, screwless, non-integrally cast and traffic-safe securing features made of high-strength plastic, cover made of spheroidal graphite cast iron (GJS), weight approx. 44/ 47kg  
**Bituplan** self-leveling frame, round, height 160 mm, external diameter 860 mm, max. bearing pressure 1,6 N/mm<sup>2</sup>,  
**Adapter ring** of cast iron, h100 mm  
total weight approx. 106 kg

Product information

- Variations**
- Black hydro-based coating
  - Logo cover
- Accessories**
- Operating tool **600643**
  - Installation shuttering **210132**

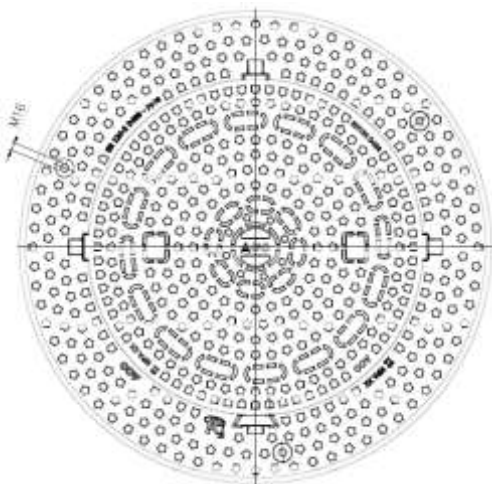
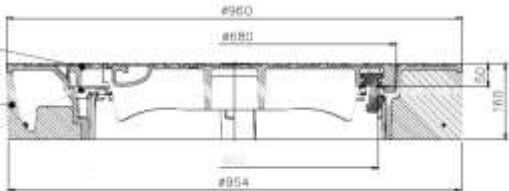
Advantages

- Self-leveling frame with a max. bearing pressure of 1,6 N/mm<sup>2</sup>
- Safe positioning of the cover due to an additional stabilization groove
- Easy installation also in case of refurbishment with the 160mm Bituplan frame
- Durable PEWEPREN cushioning insert

- ✓ **EN 124**
- ↓ **D400**
- ⊘ **605mm**
- △ **Anti slip**

Weight [kg]	Pcs / pallet	Ventilation holes	Black coating	Item-no. with adapter ring
106	5	x	-	210500
106	5	-	-	210501

MultiTop BEGUPLAN



Product description

**ACO MultiTop Beguplan manhole cover**  
Class D 400 according to EN 124  
**MultiTop** manhole cover, round, with two maintenance free, screwless, non-integrally cast and traffic-safe securing features made of high-strength plastic, cover made of spheroidal graphite cast iron (GJS), weight approx. 44/ 47kg  
**BEGUplan** frame, round, height 160 mm, external dimensions Ø 960 mm, max. bearing pressure 0,96 N/mm², total weight approx. 235 kg

Product information

- Variations**
- Black hydro-based coating
  - F900 cover
  - Logo cover
- Accessories**
- Operating tool **600643**
  - Installation aid **1206144**

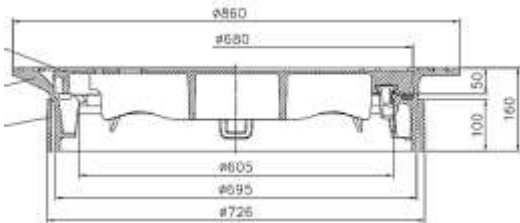
Advantages

- Safe positioning of the cover due to an additional stabilization groove
- Concrete C 35/45 is conforming to the highest classification of exposure conditions with freeze-thaw and deicing resistance
- Durable PEWEPREN cushioning insert

- ✓ **EN 124**
- ↓ **D400**
- ⊘ **605mm**
- △ **Anti slip**

Weight [kg]	Pcs / pallet	Ventilation holes	Black coating	Item-no. with adapter ring
235	4	x	-	1206071
235	4	-	-	1206072

CityTop P Bituplan 160



Product description

**ACO CityTop P Bituplan manhole cover**  
Class D 400 according to DIN EN 124  
**CityTop P** manhole cover, round, with two maintenance free, screwless, non-integrally cast and traffic-safe securing features made of high-strength plastic, cover made of spheroidal graphite cast iron (GJS), weight approx. 41/ 44kg  
**Bituplan** self-leveling frame, round, height 160 mm, external diameter 860 mm, max. bearing pressure 1,6 N/mm<sup>2</sup>, total weight approx. 103-106 kg

Product information

- Variations**
- Black hydro-based coating
  - Logo cover
- Accessories**
- Operating tool **600643**
  - Anti-theft protection kit **210248**
  - Adaptor ring of cast iron, steel or concrete

Advantages

- Self-leveling frame with a max. bearing pressure of 1,6 N/mm<sup>2</sup>
- Safe positioning of the cover due to an additional stabilization groove
- Easy installation also in case of refurbishment with the 140mm Bituplan frame
- Durable PEWEPREN cushioning insert

- ✓ **EN 124**
- ↓ **D400**
- ⊘ **605mm**
- ⬡ **Anti-theft**

Weight [kg]	Pcs / pallet	Ventilation holes	Black coating	Item-no. with adapter ring
103	12	x	-	210313
106	12	-	-	210314
103	12	x	x	604045
106	12	-	x	604046

CityTop P Bituplan 140



Product description

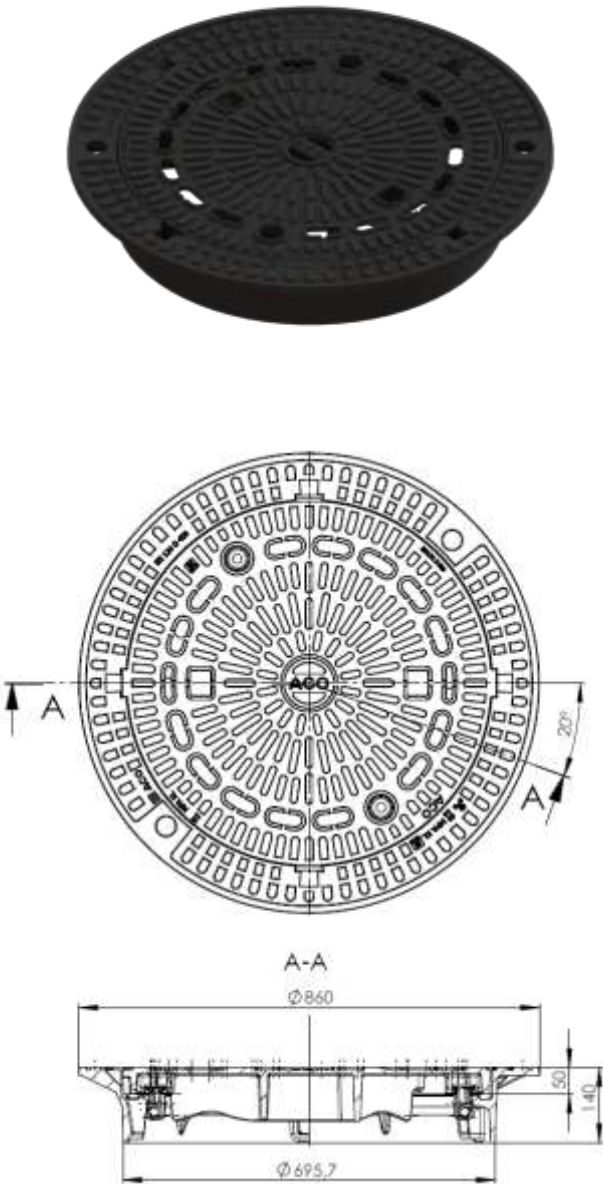
**ACO CityTop P Bituplan manhole cover**  
Class D 400 according to DIN EN 124  
**CityTop P** manhole cover, round, with two maintenance free, screwless, non-integrally cast and traffic-safe securing features made of high-strength plastic, cover made of spheroidal graphite cast iron (GJS), weight approx. 41/ 44kg  
**Bituplan** self-leveling frame, round, height 140 mm, external diameter 860 mm, max. bearing pressure 1,6 N/mm<sup>2</sup>, total weight approx. 84-86 kg

Product information

- Variations**
- Black hydro-based coating
  - Logo cover
- Accessories**
- Operating tool **600643**
  - Anti-theft protection kit **210248**
  - Adaptor ring of cast iron, steel or concrete

Advantages

- Self-leveling frame with a max. bearing pressure of 1,6 N/mm<sup>2</sup>
- Safe positioning of the cover due to an additional stabilization groove
- Easy installation also in case of refurbishment with the 140mm Bituplan frame
- Durable PEWEPREN cushioning insert

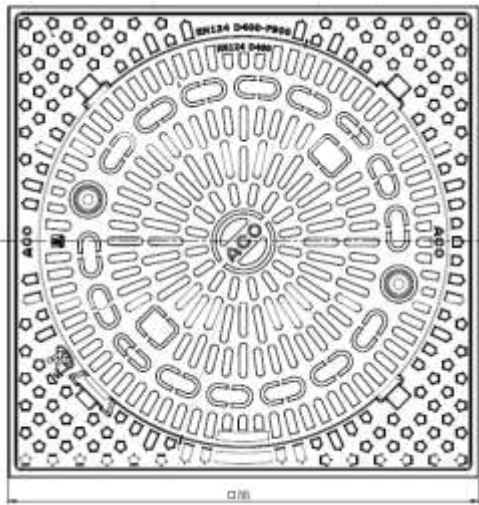
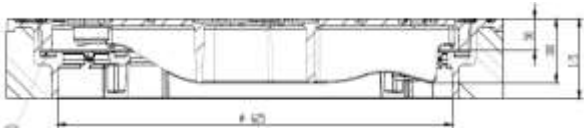


- ✓ **EN 124**
- ↓ **D400**
- ⊘ **605mm**
- ⬡ **Anti-theft**

Weight [kg]	Pcs / pallet	Ventilation holes	Black coating	Item-no. w/o adapter ring
84	16	x	-	605157
86	16	-	-	605139
84	16	x	x	210320
86	16	-	x	210321

Item-nos for version with adapter ring on request

CityTop P BEGU squared



Product description

**ACO CityTop P BEGU manhole cover**  
Class D 400 according to DIN EN 124  
**CityTop P** manhole cover, round, with two maintenance free, screwless, non-integrally cast and traffic-safe securing features made of high-strength plastic, sludge basket option, cover made of spheroidal graphite cast iron (GJS), weight approx. 41/44 kg  
**Lift** frame, square, height 125 mm, external dimensions 785x785 mm, max. bearing pressure 3,6 N/mm<sup>2</sup>, ventilation cross section 520 cm<sup>2</sup>, total weight approx. 162-164 kg

Product information

- Variations**
- Black hydro-based coating
  - F900 cover
  - Logo cover

- Accessories**
- Operating tool **600643**
  - Anti-theft protection kit **210248**

Advantages

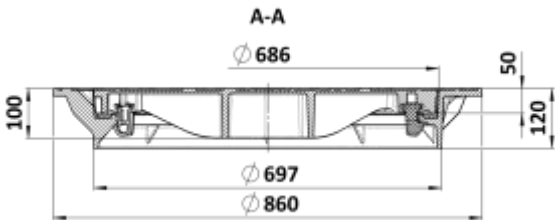
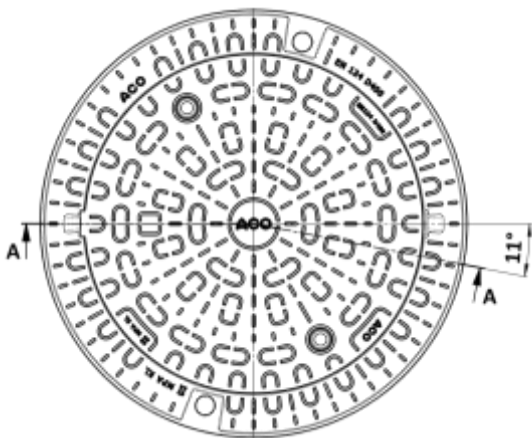
- Safe positioning of the cover due to an additional stabilization groove
- Concrete C 35/45 is conforming to the highest classification of exposure conditions with freeze-thaw and deicing resistance
- Durable PEWEPREN cushioning insert

- ✓ **EN 124**
- ↓ **D400**
- ⊘ **605mm**
- ⬡ **Anti-theft**

Weight [kg]	Pcs./pallet	Ventilation holes	Sludge basket	Item no.
164	8	-	x	604288
162	8	x	x	604289



# CityTop S Bituplan 120



## Product description

**ACO CityTop S Bituplan manhole cover**  
Class D 400 according to DIN EN 124  
**CityTop S** manhole cover, round, with two maintenance free, screwless, non-integrally cast and traffic-safe securing features made of high-strength plastic, cover made of spheroidal graphite cast iron (GJS), weight approx. 36/ 41kg  
**Bituplan** self-leveling frame, round, height 120 mm, external diameter 860 mm, max. bearing pressure 1,6 N/mm<sup>2</sup>, total weight approx. 78,5-81 kg

## Product information

- Variations**
- Black hydro-based coating
  - Logo cover
- Accessories**
- Operating tool **600643**
  - Anti-theft protection kit **210248**
  - Adaptor ring h80 of Cast iron, steel or concrete

## Advantages

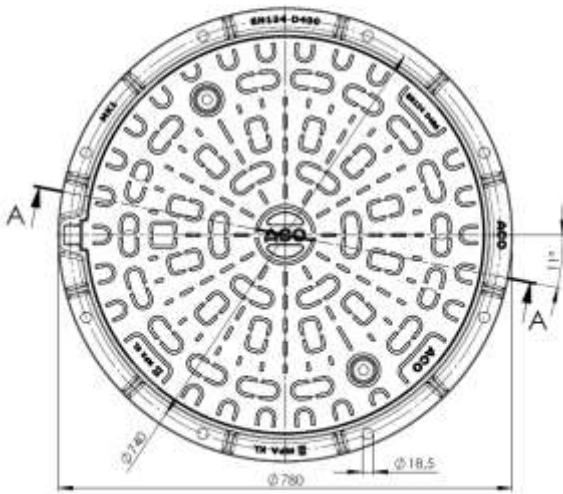
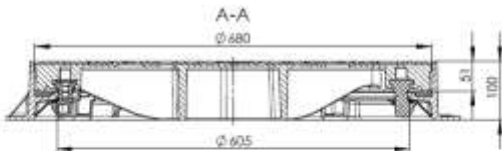
- Self-leveling frame with a max. bearing pressure of 1,6 N/mm<sup>2</sup>
- Safe positioning of the cover due to an additional stabilization groove
- Easy installation also in case of refurbishment with the 120mm Bituplan frame
- Durable PEWEPREN cushioning insert

- ✓ **EN 124**
- ↓ **D400**
- ⊘ **605mm**
- ⬡ **Anti-theft**

Weight [kg]	Pcs / pallet	Ventilation holes	Black coating	Item-no. w/o adapter ring
78,5	18	x	-	1202998
78,5	18	x	x	1202999
81	18	-	-	1203000
81	18	-	x	1203001

Item-nos for version with adapter ring on request

CityTop S Fix 100



Product description

**ACO CityTop S Fix 100 manhole cover**  
Class D 400 according to DIN EN 124  
**CityTop S** manhole cover, round,  
with two maintenance free, screwless,  
non-integrally cast and traffic-safe securing  
features made of high-strength plastic, cover  
made of spheroidal graphite cast iron (GJS),  
weight approx. 36/41 kg  
**Fix** flanged frame, round, height 100 mm  
external diameter 780 mm, max. bearing  
pressure 3,6 N/mm<sup>2</sup>, ventilation cross section  
520 cm<sup>2</sup>, total weight approx. 61/65 kg

Product information

Variations

- Black hydro-based coating
- Logo cover

Accessories

- Operating tool **600643**
- Anti-theft protection kit **210248**

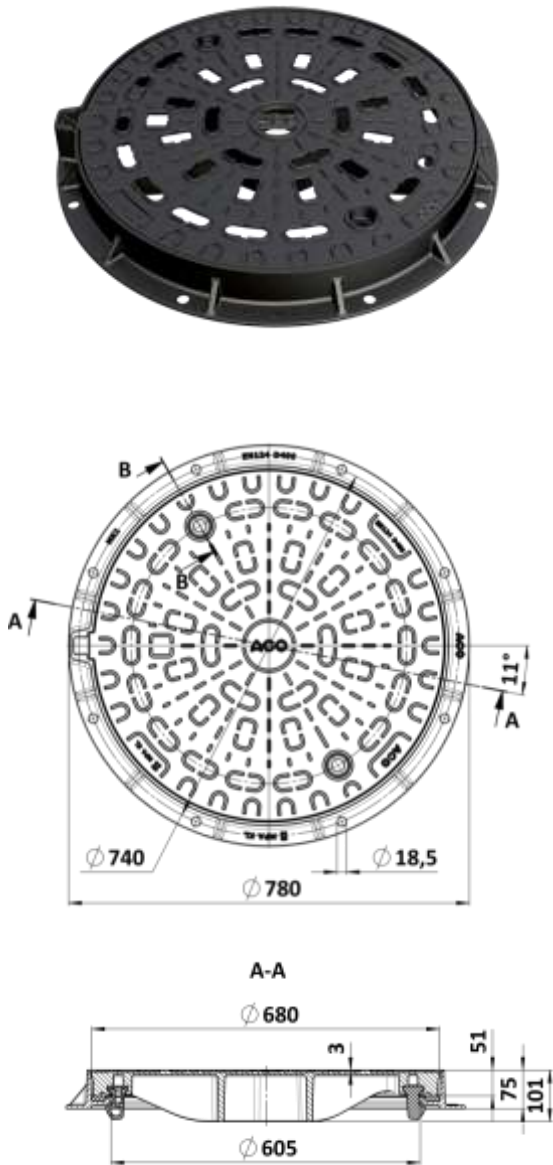
Advantages

- Safe positioning of the cover due to an additional stabilization groove
- Easy installation also in case of refurbishment with the 100 mm fix frame
- Durable PEWEPREN cushioning insert

- ✓ **EN 124**
- ↓ **D400**
- ⊘ **605mm**
- ⬡ **Anti-theft**

Weight [kg]	Pcs./pallet	Ventilation holes	coating	Item no.
61	16	x	-	1203050
65	16	-	-	1203024
61	16	x	x	1203051
65	16	-	x	1203025

CityTop S Fix 75



Product description

**ACO CityTop S Fix 75 manhole cover**  
Class D 400 according to DIN EN 124  
**CityTop S** manhole cover, round,  
with two maintenance free, screwless,  
non-integrally cast and traffic-safe securing  
features made of high-strength plastic, cover  
made of spheroidal graphite cast iron (GJS),  
weight approx. 36/41 kg  
**Fix** flanged frame, round, height 75 mm  
external diameter 780 mm, max. bearing  
pressure 3,6 N/mm<sup>2</sup>, ventilation cross section  
520 cm<sup>2</sup>, total weight approx. 56/61 kg

Product information

- Variations**
- Black hydro-based coating
  - Logo cover
- Accessories**
- Operating tool **600643**
  - Anti-theft protection kit **210248**

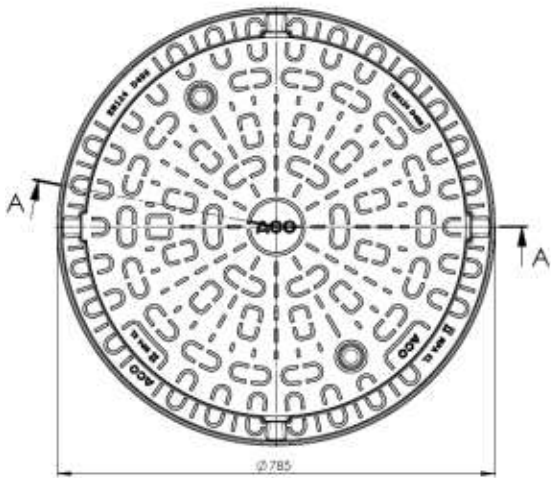
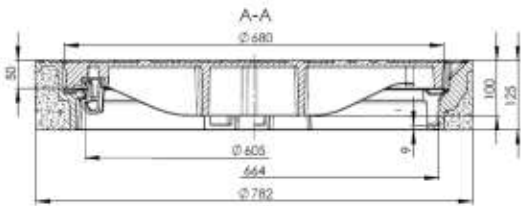
Advantages

- Safe positioning of the cover due to an additional stabilization groove
- Easy installation also in case of refurbishment with the 75 mm fix frame
- Durable PEWEPREN cushioning insert

- ✓ **EN 124**
- ↓ **D400**
- ⊘ **605mm**
- ⬡ **Anti-theft**

Weight [kg]	Pcs./pallet	Ventilation holes	coating	Item no.
56	16	x	-	1015545
61	16	-	-	1201099
56	16	x	x	1015549
61	16	-	x	1201100

CityTop S Lift 125 with continuous cushioning insert



Product description

**ACO CityTop S Lift 125 manhole cover**  
Class D 400 according to DIN EN 124  
**CityTop S** manhole cover, round, with two maintenance free, screwless, non-integrally cast and traffic-safe securing features made of high-strength plastic, cover made of spheroidal graphite cast iron (GJS), weight approx. 36/41 kg  
**Lift** frame, round, height 125 mm, external diameter 785 mm, max. bearing pressure 3,6 N/mm<sup>2</sup>, ventilation cross section 520 cm<sup>2</sup>, total weight approx. 103-105 kg

Product information

Variations

- Black hydro-based coating
- Logo cover

Accessories

- Operating tool **600643**
- Anti-theft protection kit **210248**

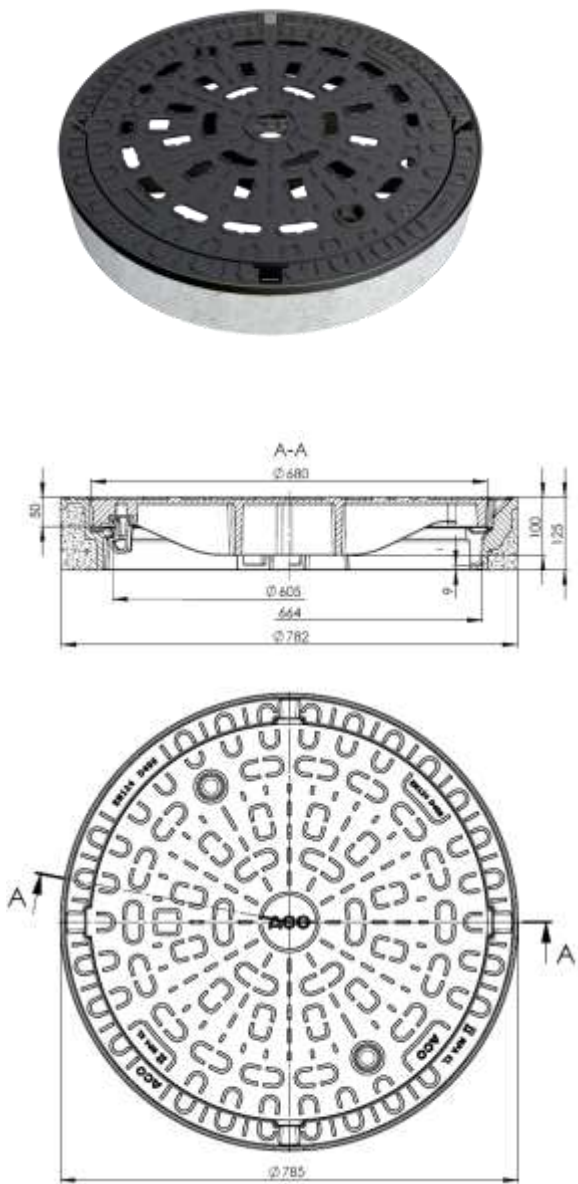
Advantages

- Safe positioning of the cover due to an additional stabilization groove
- Concrete C 35/45 is conforming to the highest classification of exposure conditions with freeze-thaw and deicing resistance
- Durable PEWEPREN cushioning insert

- ✓ **EN 124**
- ↓ **D400**
- ⊘ **605mm**
- ⬡ **Anti-theft**

Weight [kg]	Pcs./pallet	Ventilation holes	Sludge basket	Item no.
105	10	-	NO	1204010.

CityTop S Lift 125 for sludge baskets



Product description

**ACO CityTop S Lift 125 manhole cover**  
Class D 400 according to DIN EN 124  
**CityTop S** manhole cover, round, with two maintenance free, screwless, non-integrally cast and traffic-safe securing features made of high-strength plastic, sludge basket option, cover made of spheroidal graphite cast iron (GJS), weight approx. 36/41 kg  
**Lift** frame, round, height 125 mm, external diameter 785 mm, max. bearing pressure 3,6 N/mm<sup>2</sup>, ventilation cross section 520 cm<sup>2</sup>, total weight approx. 103-105 kg

Product information

- Variations**
- Black hydro-based coating
  - Logo cover

- Accessories**
- Operating tool **600643**
  - Anti-theft protection kit **210248**

Advantages

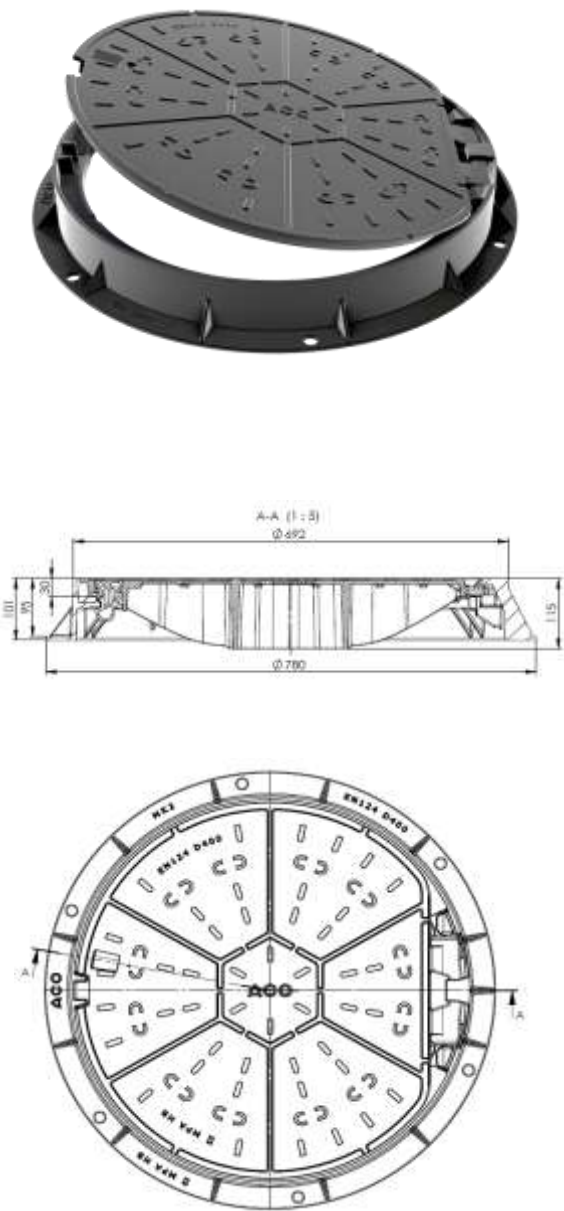
- Safe positioning of the cover due to an additional stabilization groove
- Concrete C 35/45 is conforming to the highest classification of exposure conditions with freeze-thaw and deicing resistance
- Durable PEWEPREN cushioning insert

- ✓ **EN 124**
- ↓ **D400**
- ⊘ **605mm**
- ⬡ **Anti-theft**

Weight [kg]	Pcs./pallet	Ventilation holes	Sludge basket	Item no.
105	10	-	x	1202823
103	10	x	x	1202822



# CityTop Q+ Hinge



## Product description

**ACO CityTop Q manhole cover with hinge**  
Class D 400 according to DIN EN 124  
**CityTop Q** manhole cover, round,  
with one maintenance free, screwless,  
non-integrally cast and traffic-safe securing  
feature made of high-strength plastic, cover  
made of spheroidal graphite cast iron (GJS),  
to be hinged up to 110° or removable  
up to an angle of 30°  
weight approx. 28 kg  
**Fix** flanged frame, round, with hinge,  
height 100 mm external diameter 780 mm,  
max. bearing pressure 3,6 N/mm<sup>2</sup>,  
total weight approx. 53 kg

## Product information

- Variations**
- Black hydro-based coating
- Accessories**
- Operating tool **600643**

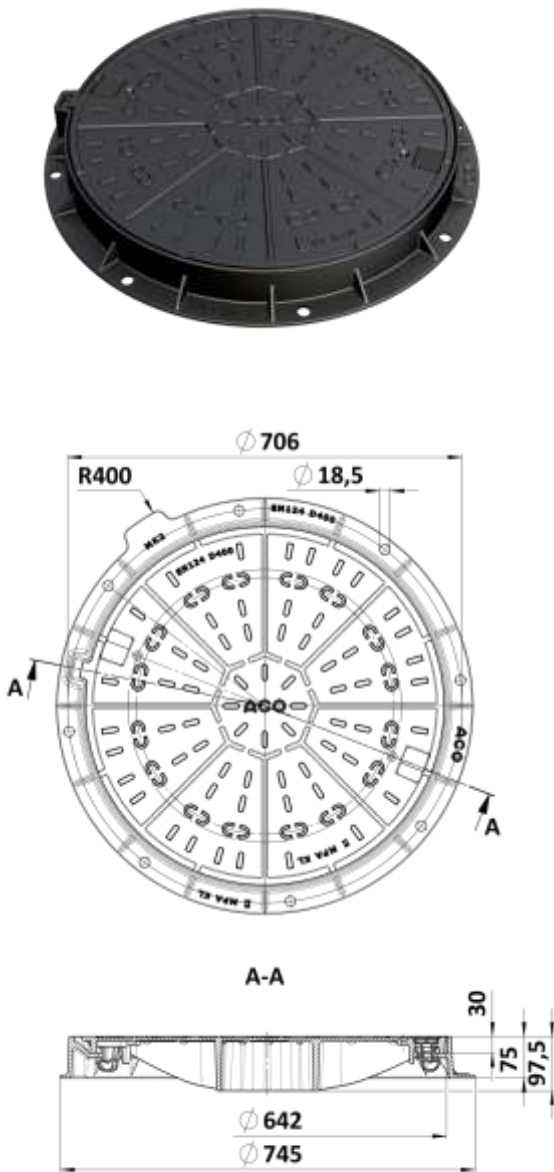
## Advantages

- Safe positioning of the cover due to an additional stabilization groove
- Easy installation also in case of refurbishment with the 100 mm Fix frame
- Durable PEWEPREN cushioning insert

- ✓ **EN 124**
- ↓ **D400**
- ⊘ **605mm**
- ⬡ **Anti-theft**

Weight (kg)	Pcs./pallet	Ventilation holes	Coating	Item-no.
53	16	NO	-	1202931
53	16	NO	X	1202932

# CityTop Q+ Full Round



## Product description

**ACO CityTop Q Fix manhole cover**  
Class D 400 according to DIN EN 124  
**CityTop Q** manhole cover, round,  
with two maintenance free, screwless,  
non-integrally cast and traffic-safe securing  
feature made of high-strength plastic, cover  
made of spheroidal graphite cast iron (GJS),  
weight approx. 25kg  
**Fix** frame, round, height 75 mm, external  
diameter 745 mm,  
total weight approx. 41kg

## Product information

- Variations**
- Black hydro-based coating
- Accessories**
- Operating tool **600643**

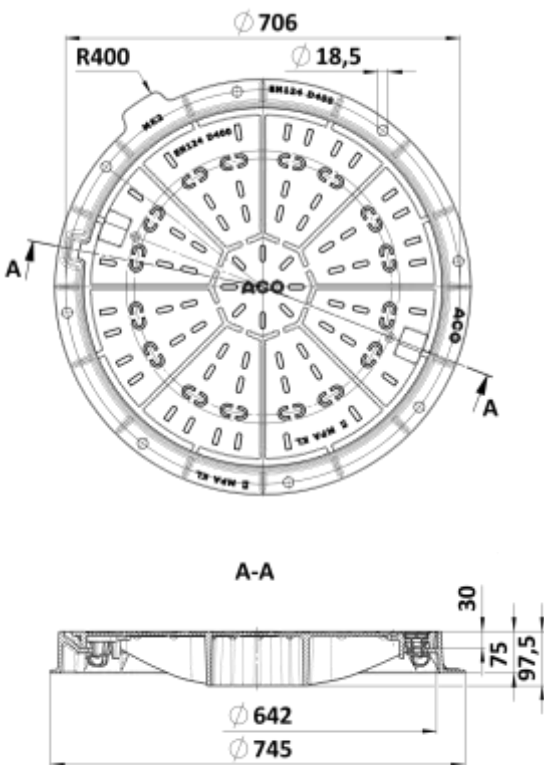
## Advantages

- Safe positioning of the cover due to an additional stabilization groove
- Special designed CityTop Q locking element
- Easy to handle light weight cover with 25kg
- machined contact surfaces of frame and cover + **Cushioning insert**

- ✓ **EN 124**
- ↓ **D400**
- ⊘ **605mm**
- ⬡ **Anti-theft**

Weight (kg)	Pcs./pallet	Ventilation holes	Coating	Item-no.
41	16	-	-	1203586
41	16	-	x	1203587
41	16	x	-	1204695
41	16	x	x	1204696

CityTop Q Full Round



Product description

**ACO CityTop Q Fix manhole cover**  
Class D 400 according to DIN EN 124  
**CityTop Q** manhole cover, round,  
with two maintenance free, screwless,  
non-integrally cast and traffic-safe securing  
feature made of high-strength plastic, cover  
made of spheroidal graphite cast iron (GJS),  
weight approx. 25kg  
**Fix** frame, round, height 75 mm, external  
diameter 745 mm,  
total weight approx. 41kg

Product information

- Variations**
- Black hydro-based coating
- Accessories**
- Operating tool **600643**

Advantages

- Safe positioning of the cover due to an additional stabilization groove
- Special designed CityTop Q locking element
- Easy to handle light weight cover with 25kg
- machined contact surfaces of frame and cover

- ✓ **EN 124**
- ↓ **D400**
- ⊘ **605mm**
- ⬡ **Anti-theft**

Weight (kg)	Pcs./pallet	Ventilation holes	Coating	Item-no.
41	16	-	-	1202953
41	16	-	x	1202954
41	16	x	-	1204693
41	16	x	x	1204694

Basic 600 Hinge



Product description

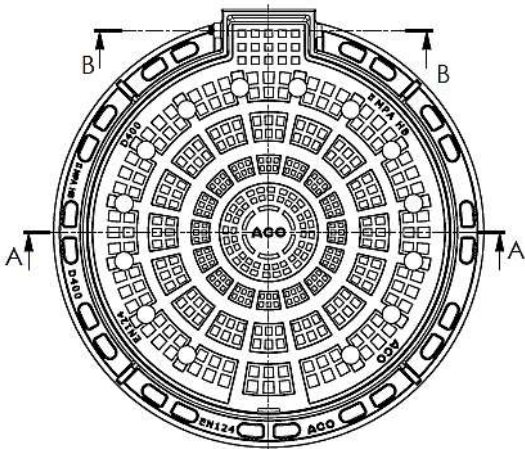
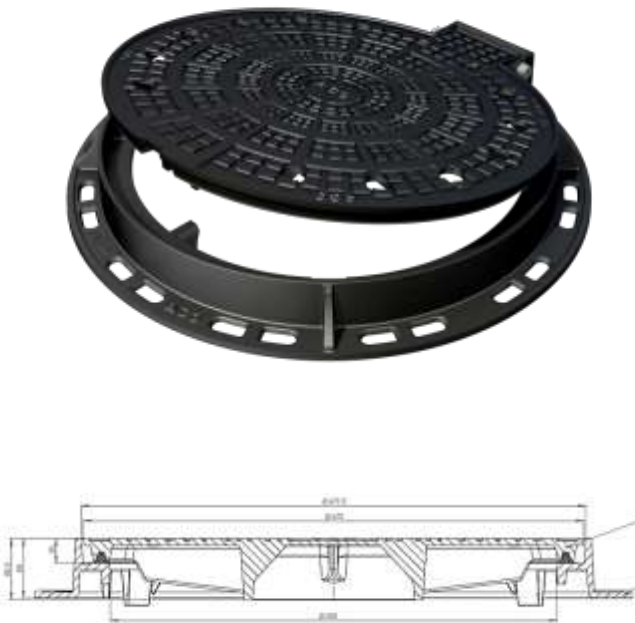
**BasicLine manhole cover with hinge**  
Class D 400 according to DIN EN 124  
**BasicLine** manhole cover, round, hinged  
cover made of spheroidal graphite cast iron (GJS), with cushioning insert  
Max. opening angle 110°, locked by spring bar  
weight approx. 41 kg, ventilated / non-ventilated  
Anti-theft secured hinged  
**Fix** flanged frame, round, with hinge,  
height 80 mm, external diameter 800 mm,  
max. bearing pressure 3,6 N/mm<sup>2</sup>,  
Black coated  
total weight approx. 65 kg

Product information

- Accessories**
- Operating tool **600643**

Advantages

- Safe positioning of the cover due to an additional stabilization groove
- Easy installation also in case of refurbishment with the 80 mm Fix frame
- Durable PEWEPREN cushioning insert



- ✓ **EN 124**
- ↓ **D400**
- ⊘ **605mm**
- ⬡ **Anti-theft**

Weight (kg)	Pcs./pallet	Ventilation holes	Coating	Item-no.
65	16	-	X	1204321
65	16	X	X	1204816

The background of the page is a close-up, black and white photograph of a manhole cover. The cover has a textured surface with a repeating pattern of raised, interlocking shapes. The word 'ACO' is embossed in the center of the cover.

# Manhole Covers DN Pipe



# PipeTop P

for NW 315, 425 or 600



Cover	
grating	
Flanged frame	
Floating frame	
Squared frame	

## Product description

**ACO PipeTop P manhole tops for pipes**  
Class D 400 according to DIN EN 124  
**cover or grating**, round,  
with two high-resistant, maintenance free,  
screwless, non-integrally cast and traffic-safe  
securing features made of high-strength  
plastic  
made of spheroidal graphite cast iron (GJS),  
**Frames** with PEWEPREN cushioning inserts  
Black coated

Frame shaft to put into the pipes

**Clear openings:**  
NW 315 -> 273 mm  
NW 425 -> 355 mm  
NW 600 -> 557 mm

## Product information

- Accessories**
- Opening tool **850000001**
  - Anti-theft protection kit **210248**  
(only for NW600)

## Advantages

- Safe positioning of the cover due to an additional stabilization groove
- Durable PEWEPREN cushioning insert

More details at the following sheets

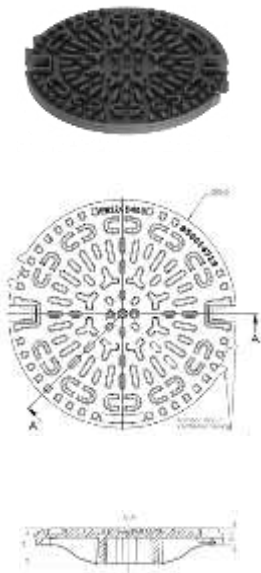
- ✓ EN 124
- ↓ D400
- ⊘ 315 mm  
425 mm  
600 mm

PipeTop P

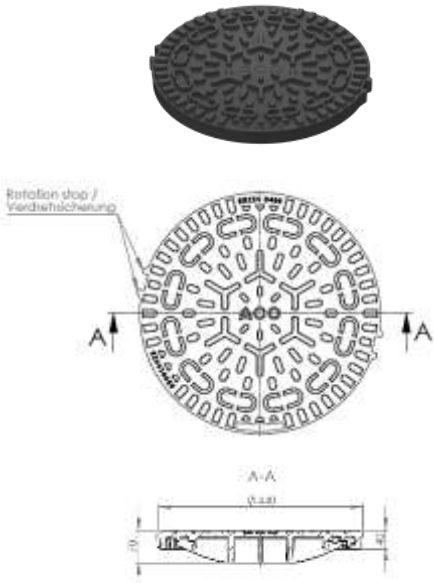


Cover

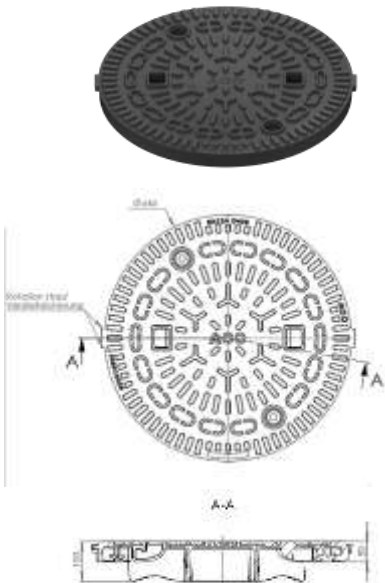
NW 315



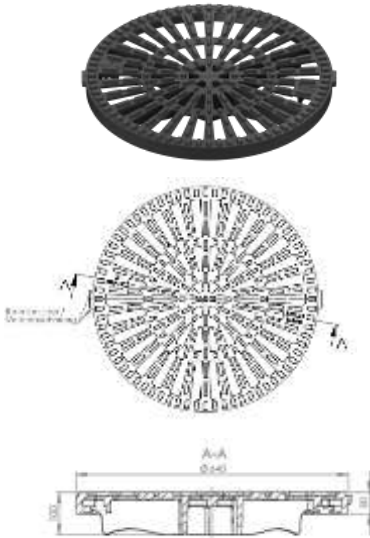
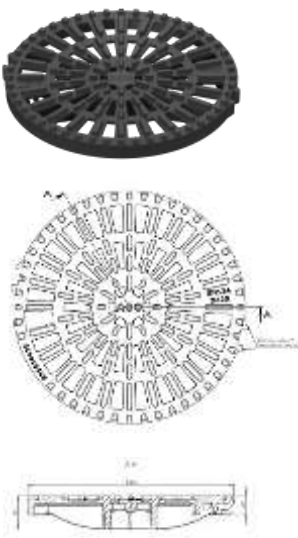
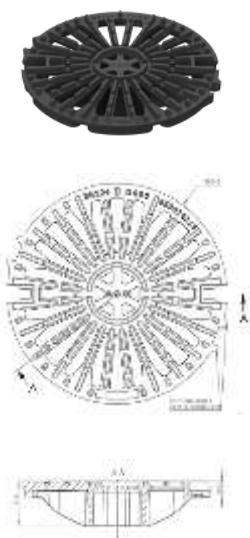
NW 425



NW 600



Grating

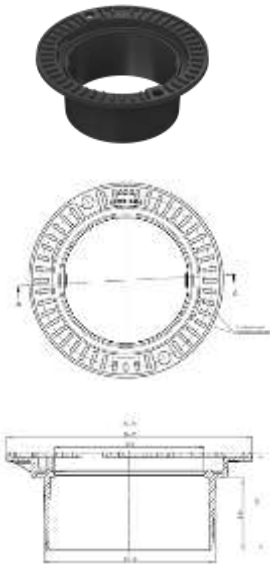


PipeTop P

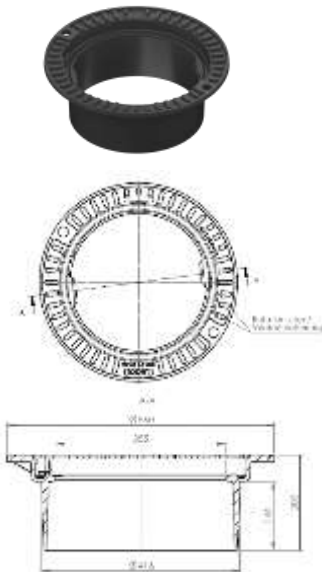


Floating frames low

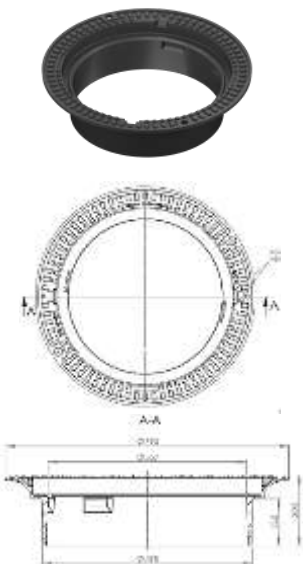
NW 315



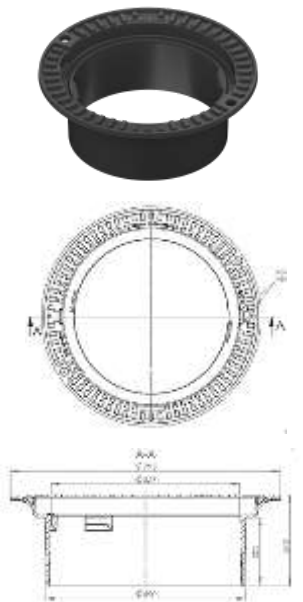
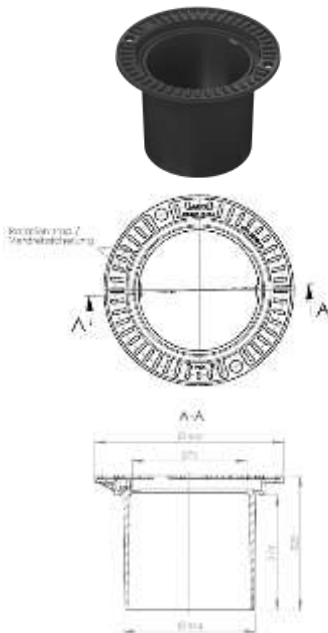
NW 425



NW 600



Floating frames high

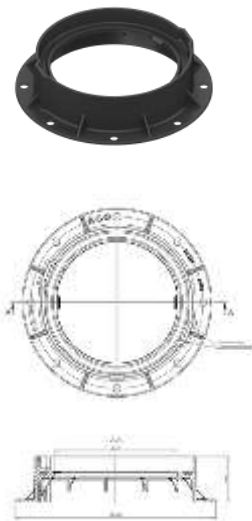


PipeTop P



Flanged frames

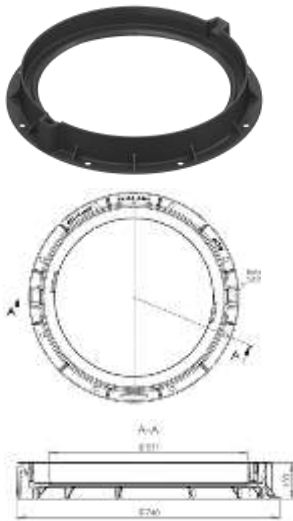
NW 315



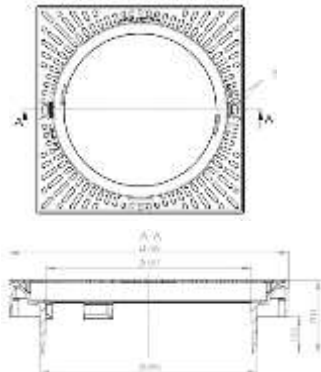
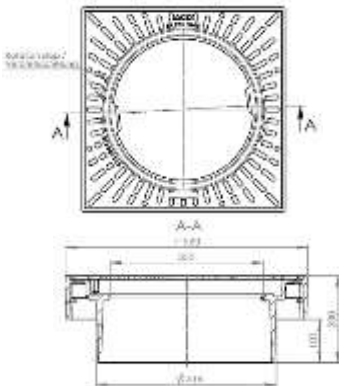
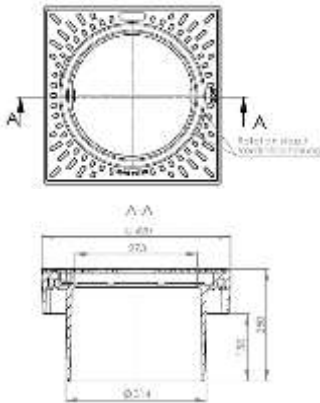
NW 425



NW 600


















Squared frames



PipeTop P



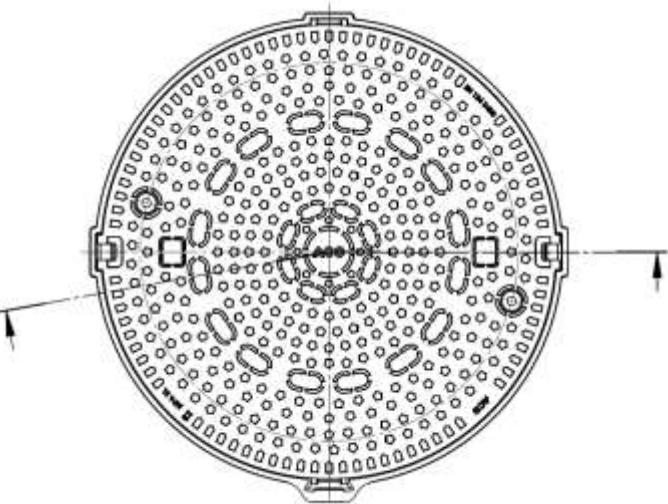
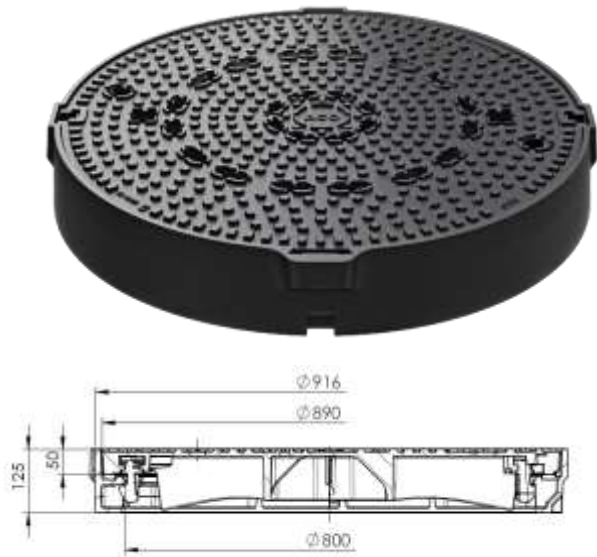
	Cover	Grating	Flanged frame	Floating frame round	Floating frame squared
Ø 315 mm					
Article	850014315	850024315	h100 – 851104315	h180 – 852104315 h320 – 852204315	h250 – 853104315
Ø 425 mm					
Article	850014425	850024425	h100 – 851104425	h200 – 852104425 h240 – 852204425	h200 – 853104425
Ø 600 mm					
Article	850014600	850024600	h100 – 851104600	h200 – 852104600 h270 – 852304600	h200 – 853104600



# Special Manhole Covers



# MultiTop Lift – Clear opening 800 mm



## Product description

**ACO MultiTop Lift manhole top**  
Class D 400 according to DIN EN 124  
**MultiTop** manhole cover, round,  
with two high-resistant, maintenance free,  
screwless, non-integrally cast and traffic-safe  
securing features made of high-strength  
plastic  
cover made of spheroidal graphite cast iron  
(GJS),  
weight approx. 75 kg

**Lift frame, round**  
Liftable for height adjustment  
with PEWEPREN cushioning inserts  
Clear opening 800 mm, height 125 mm,  
external diameter 915 mm,  
total weight approx. 124 kg

## Product information

- Variations**
- Black hydro-based coating
  - **F900 cover**
  - Logo cover

- Accessories**
- |                             |               |
|-----------------------------|---------------|
| ▪ Opening tool              | <b>600643</b> |
| ▪ Dirt bucket               | <b>57188</b>  |
| ▪ Anti-theft protection kit | <b>210248</b> |

- ✓ **EN 124**
- ↓ **D400**
- ⊘ **800 mm**
- △ **Anti slip**

Weight [kg]	Pcs./ pallet	Ventilation holes	Black coating	Item no.
123	5	x	-	210608
125	5	-	-	210609

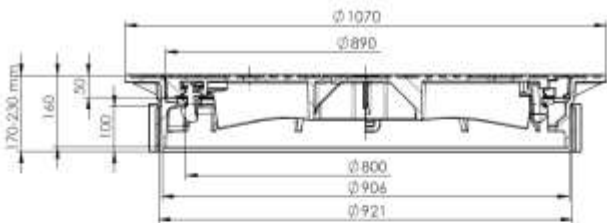
# MultiTop Bituplan – Clear opening 800 mm



## Product description

**ACO MultiTop Bituplan manhole top**  
Class D 400 according to DIN EN 124  
**MultiTop** manhole cover, round,  
with two high-resistant, maintenance free,  
screwless, non-integrally cast and traffic-safe  
securing features made of high-strength  
plastic  
cover made of spheroidal graphite cast iron  
(GJS),  
weight approx. 75 kg

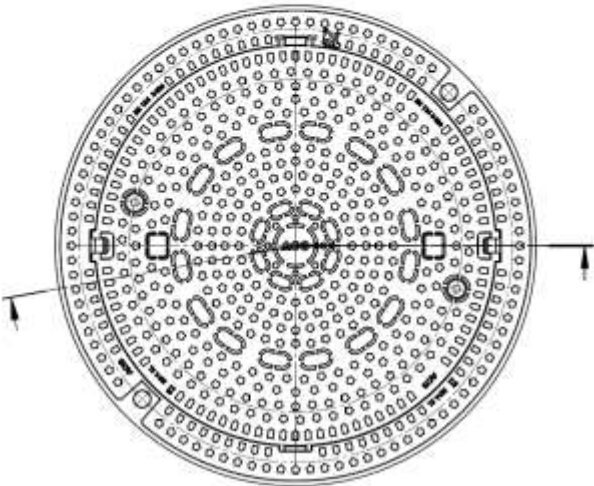
**Bituplan** frame, round  
with PEWEPREN cushioning inserts  
Clear opening 800 mm, height 160 mm,  
external diameter 1070 mm,  
total weight approx. 174 kg



## Product information

- Variations**
- Black hydro-based coating
  - Logo cover

- Accessories**
- Opening tool **600643**
  - Dirt bucket **57188**
  - Reusable installation shuttering **210132**
  - Anti-theft protection kit **210248**

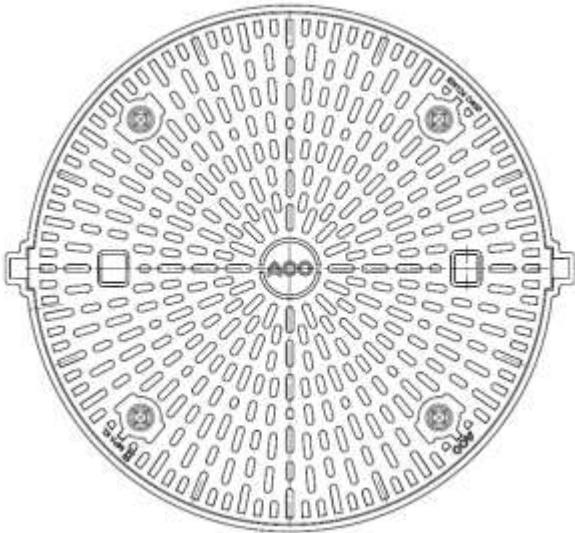


- ✓ **EN 124**
- ↓ **D400**
- ⊘ **800 mm**
- △ **Anti slip**

Weight [kg]	Pcs./pallet	Ventilation holes	Black coating	Item-no. with adapter ring
173	5	x	-	210606
175	5	-	-	210607



# MultiTop backflow safe – Clear opening 800 mm



## Product description

**ACO MultiTop backflow safe**  
Class D 400 according to DIN EN 124  
**MultiTop** manhole cover, round,  
with 4 special turnbuckle locking devices,  
with oil- and fuel-resistant sealing  
cover made of spheroidal graphite cast iron  
(GJS),  
weight approx. 78 kg

**Frame** of cast iron, round  
with internal flange, with sand sealing  
Clear opening 800 mm, height 125 mm,  
external diameter 910/993 mm,  
total weight approx. 128 kg

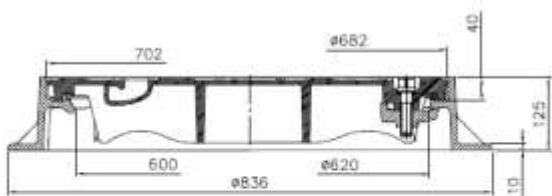
## Product information

- Accessories**
- Opening tool **85518**
  - Set of fixing clamps **57184**

- ✓ **EN 124**
- ↓ **D400**
- ⊘ **800 mm**
- ⬡ **Anti-theft**

Weight [kg]	Pcs./pallet	Ventilation holes	Black coating	Item no.
128	5	-	-	607178

# MultiTop backflow safe



## Product description

**ACO MultiTop backflow safe**  
Class D 400 according to DIN EN 124  
**MultiTop** manhole cover, round,  
with three special turnbuckle locking devices,  
with oil- and fuel-resistant sealing  
cover made of spheroidal graphite cast iron  
(GJS),  
weight approx. 45 kg

**Fix** flanged frame, round  
with anchoring devices,  
Clear opening 620 mm, height 100/125 mm,  
external diameter 835 mm,  
total weight approx. 92 kg

## Product information

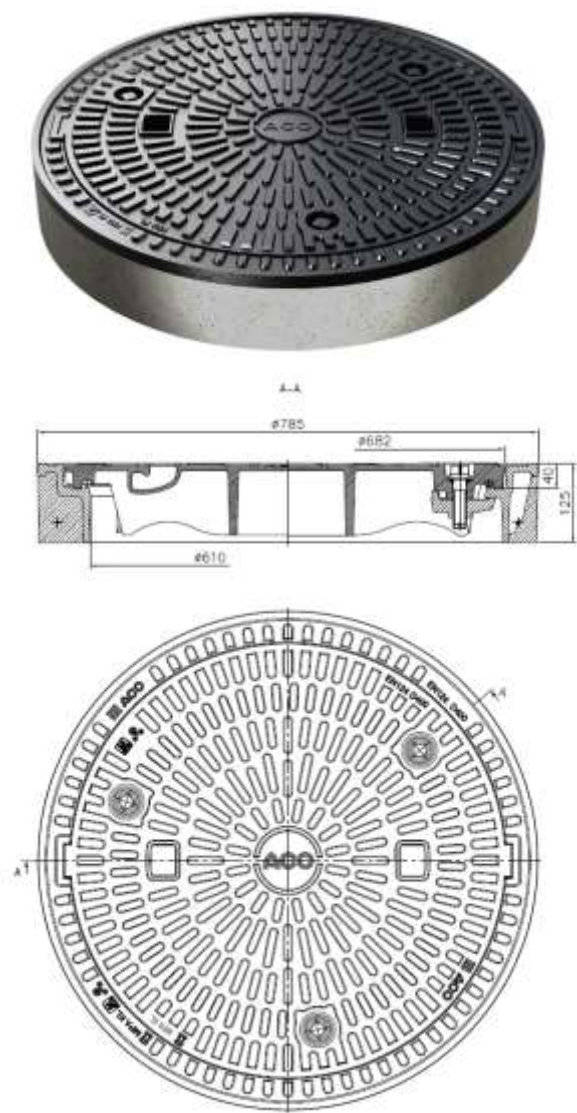
- Accessories**
- Opening tool **85518**

- ✓ **EN 124**
- ↓ **D400**
- ⊘ **605mm**
- ⬡ **Anti-theft**

Weight [kg]	Pcs./pallet	Ventilation holes	Frame height	Item no.
92	10	-	125 mm	603956
92	10	-	100 mm	603959



# MultiTop surface waterproof



## Product description

**ACO MultiTop surface waterproof**  
Class D 400 according to DIN EN 124  
**MultiTop** manhole cover, round,  
with three special turnbuckle locking devices,  
with oil- and fuel-resistant sealing  
cover made of spheroidal graphite cast iron  
(GJS),  
weight approx. 45 kg

**Lift BEGU frame, round**  
Clear opening 620 mm, height 125 mm,  
external diameter 785 mm,  
total weight approx. 120 kg

## Product information

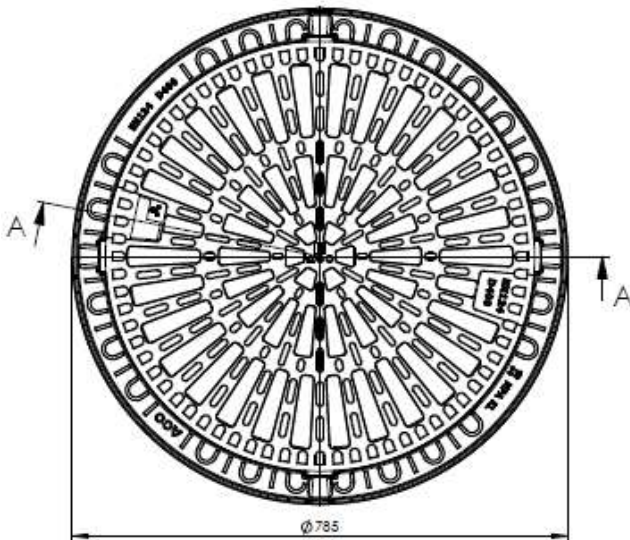
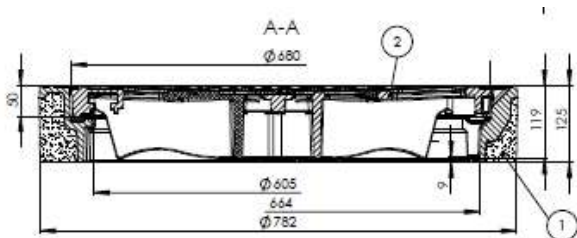
- Variations**
- Black hydro-based coating

- Accessories**
- Opening tool **85518**

- ✓ **EN 124**
- ↓ **D400**
- ⊘ **605mm**
- ⬡ **Anti-theft**

Weight [kg]	Pcs./pallet	Ventilation holes	Black coating	Item no.
120	10	-	-	604491
120	10	-	X	604492

# CityTop P grating



## Product description

**ACO CityTop P grating**  
Class C250 or D 400 according to DIN EN 124  
**CityTop P** grating, round, made of cast iron, slot width 31 mm, gauge 10 mm, with two maintenance free, screwless, non-integrally cast and traffic-safe securing features made of high-strength plastic,

**Lift** frame, round, height 125 mm, external diameter 785 mm, max. bearing pressure 3,6 N/mm<sup>2</sup>, inlet section 1.198 cm<sup>2</sup>, total weight approx. 103-105 kg

## Product information

- Accessories**
- Operating tool **600643**
  - Funnel with bucket support **4750.00.00**

## Advantages

- Safe positioning of the cover due to an additional stabilization groove
- Concrete C 35/45 is conforming to the highest classification of exposure conditions with freeze-thaw and deicing resistance
- Durable PEWEPREN cushioning insert

- ✓ **EN 124**
- ↓ **C250 / D400**
- ⊘ **605mm**

Load Class	Weight [kg]	Pcs./ pallet	Item-no.
C250	109	10	1204831
D400	109	10	1204832

# CityTop S B125 L-frame



## Product description

**ACO CityTop S B125 manhole cover**  
Class B125 according to DIN EN 124  
**CityTop S** manhole cover, round,  
without ventilation holes  
made of spheroidal graphite cast iron (GJS),  
weight approx. 19 kg

**L-frame**, round, height 61,5 mm  
external diameter 700 mm,  
max. bearing pressure 3,6 N/mm<sup>2</sup>,  
total weight approx. 30 kg

## Product information

### Variations

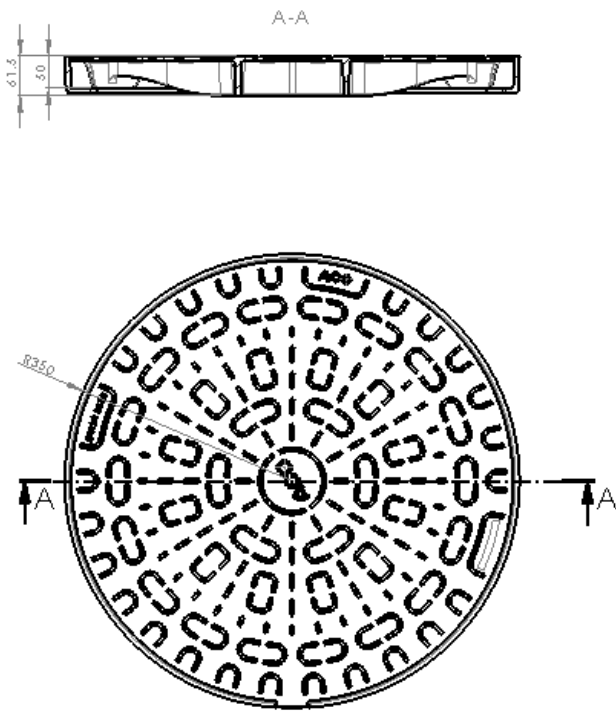
- Black hydro-based coating
- Logo cover

### Accessories

- Operating tool **600643**

## Advantages

- Easy to handle light weight cover with 19 kg



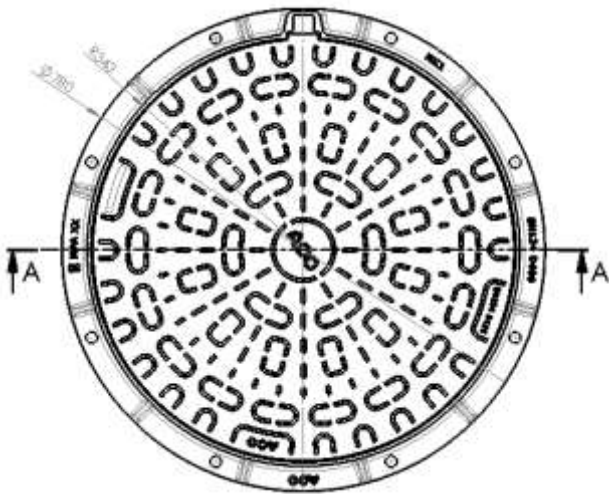
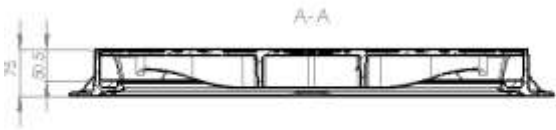
✓ EN 124

↓ B125

⊘ 605mm

Weight [kg]	Pcs./pallet	Ventilation holes	Black coating	Item-no.
30	16	-	-	1203886
30	16	-	X	1203887

# CityTop S B125 Fix 75



## Product description

**ACO CityTop S B125 manhole cover**  
Class B125 according to DIN EN 124  
**CityTop S** manhole cover, round,  
without ventilation holes  
made of spheroidal graphite cast iron (GJS),  
weight approx. 19 kg

**Fix** flanged frame, round, height 75 mm  
external diameter 780 mm,  
max. bearing pressure 3,6 N/mm<sup>2</sup>,  
total weight approx. 38 kg

## Product information

- Variations**
- Black hydro-based coating
  - Logo cover

- Accessories**
- Operating tool **600643**

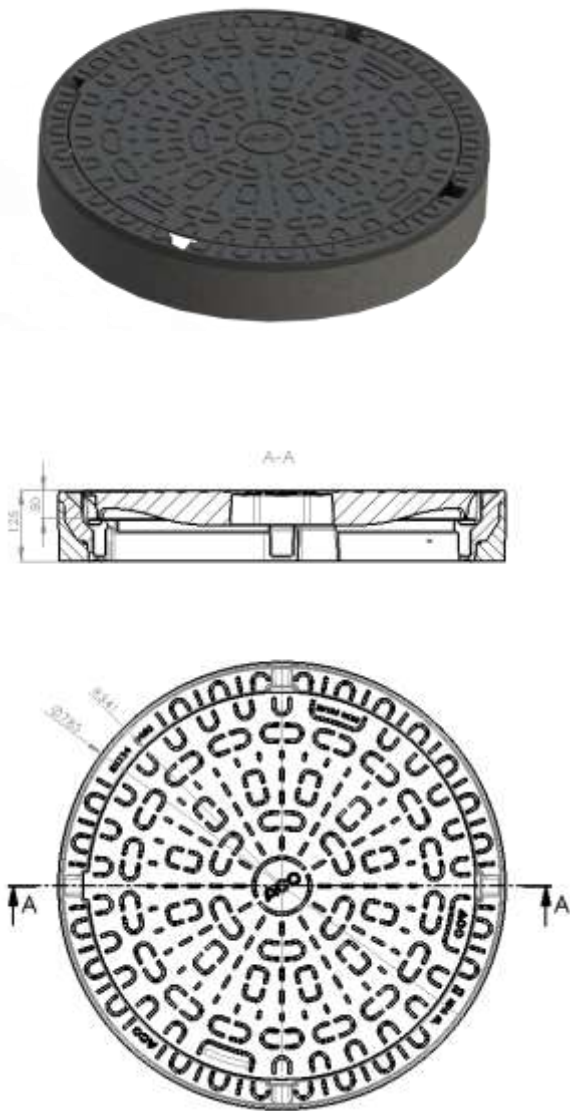
## Advantages

- Easy installation also in case of refurbishment with the 75 mm fix frame
- Durable PEWEPREN cushioning insert
- Easy to handle light weight cover with 19 kg

- ✓ **EN 124**
- ↓ **B125**
- ⊘ **605mm**

Weight [kg]	Pcs./pallet	Ventilation holes	Black coating	Item-no.
38	16	-	-	1203888
38	16	-	X	1203889

# CityTop S B125 BEGU



## Product description

**ACO CityTop S B125 manhole cover**  
Class B125 according to DIN EN 124  
**CityTop S** manhole cover, round,  
without ventilation holes  
made of spheroidal graphite cast iron (GJS),  
weight approx. 19 kg

**BEGU**-frame, round, height 125 mm  
external diameter 785 mm,  
max. bearing pressure 3,6 N/mm<sup>2</sup>,  
total weight approx. 85 kg

## Product information

### Variations

- Logo cover

### Accessories

- Operating tool **600643**

## Advantages

- Durable PEWEPREN cushioning insert
- Easy to handle light weight cover with 19 kg

- ✓ EN 124
- ↓ B125
- ⊘ 605mm

Weight [kg]	Pcs./pallet	Ventilation holes	Black coating	Item-no.
85	10	-	-	1203886



## Logo Covers

All MultiTop, CityTop P and CityTop S cover could be personalized with company / municipality logos or inscriptions.

Please ask for the individual development and tooling costs.

The pattern of each product family is not interchangeable with others.  
(E.g. logo for CityTop P could not be used for CityTop S and vice versa)

On the following pages you'll find some references of logo covers.







City of Plovdiv, BG



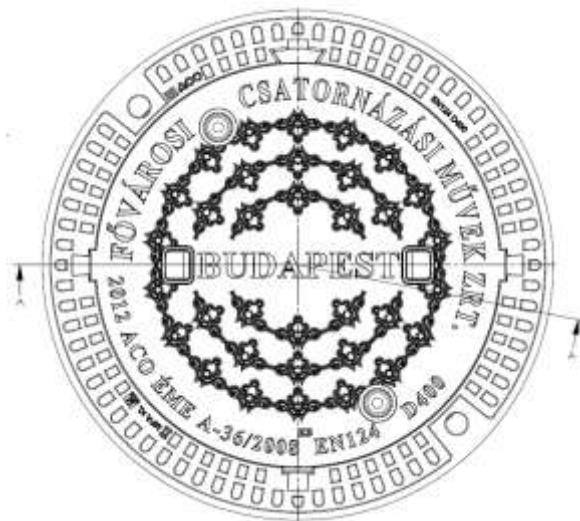
City of Varna, BG



Puma Headquarter, GER



Tunel Plasina, HR



City of Budapest, HU

