



12'' (DN300) New lines of surface drainage systems



WARNING! Hyperlinks work in the presentation
to quickly navigate between slides **ctrl+lbn**, slides with
hyperlinks are marked with a special symbol. [Link](#)

Company **Vodaland** presents an innovative series **surface plastic drainage system 12" (DN300)**, specially designed for efficient management **large flows of rain and melt water** in large-scale infrastructure and industrial projects.

This is not just a new line - it is **system**, that adapts to any project, providing **maximum efficiency, reliability and ease of installation**.



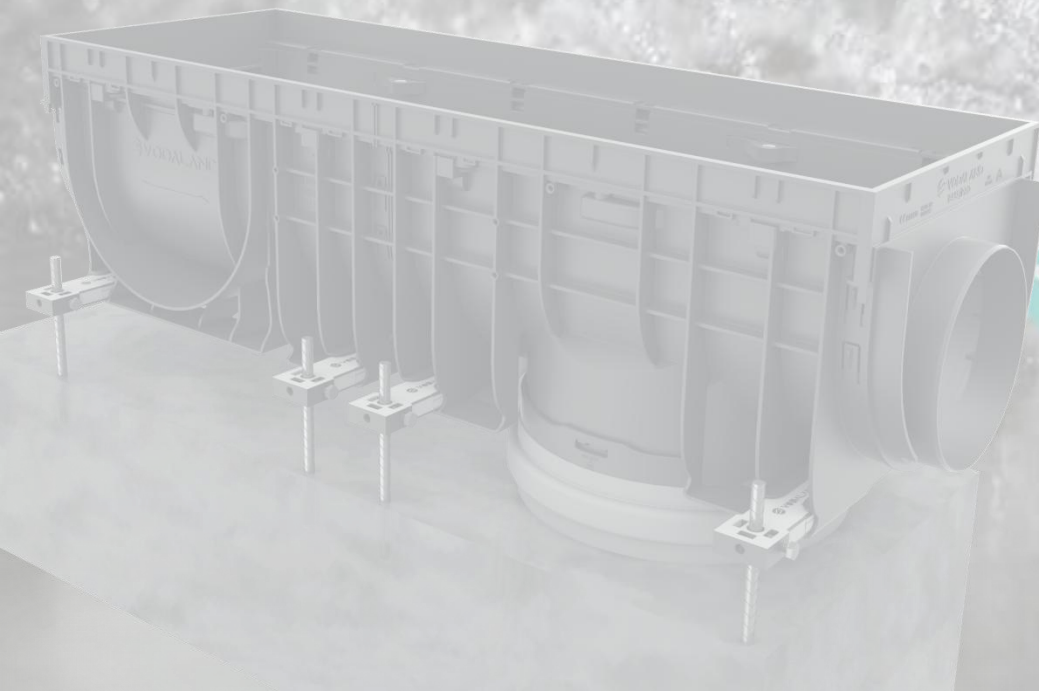
Engineering flexibility:

- ▶ Unique mounting solutions
- ▶ Versatile components for different applications
- ▶ Multiple discharge points with variable connections



Hydraulic modularity:

- ▶ Wide range of channel and connection combinations
- ▶ Easy integration into complex wastewater systems



Channel H11.81''(300)

One high board

Side cut marker for equipping the channel with reinforced nozzle

Double click locking system ensures the most reliable connection in harsh environments



T-side connection of channels H11.81'' (300)

Name NA(EU)	12" Base Neutral Channel H11.81" (Plastic channel Base DN300 H300)
Width, inch (mm)	14" (356)
Heights, inch (mm)	11-3/4" (300)
Installation length, inch (mm)	39-3/8" (1000)
Total length, inch (mm)	40-1/4" (1021)
Weight, lb (kg)	12.36 (5,61)
Article	87300

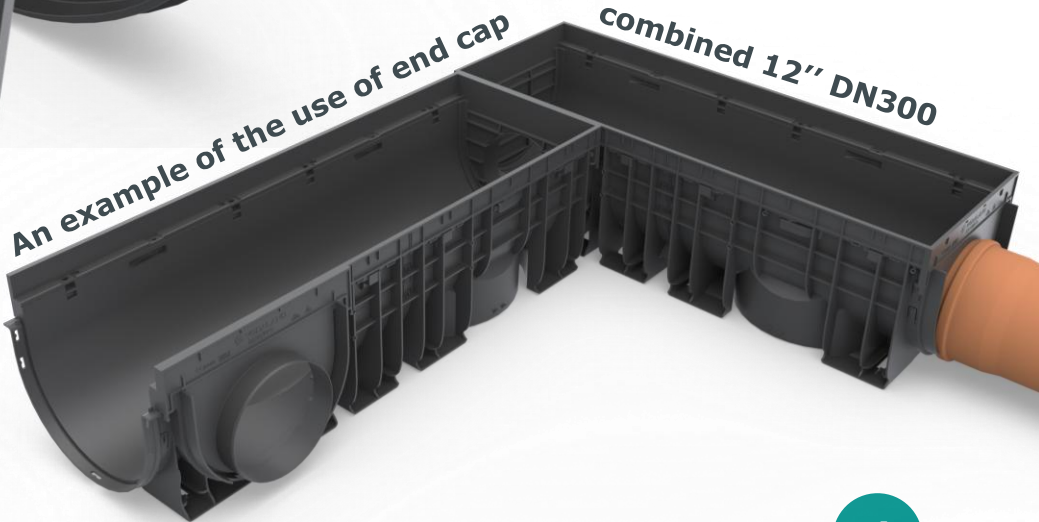
Connection versions (for 12" DN300: 6" DN160 (1X), 8" DN200 (1X), 12" DN315(1X))

Combination end cap



Name NA(EU)	12" End cap for plastic channel Base H11.81" with pipe outlet 7.87" (Plastic end cap for plastic channel Base DN300 H300 with pipe outlet 200)
Width, inch (mm)	14" (356)
Heights, inch (mm)	11-1/8" (281)
Length, inch (mm)	2-1/2" (62)
Outlet under the pipe, inch (mm)	8" (DN200)
Weight, lb (kg)	1.09 (0,498)
Article	637300

End cap outlet (8" DN200 for 12" DN300 H11.81" (300)



Outlet bottom 12" (DN315)



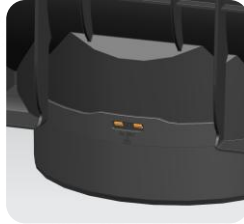
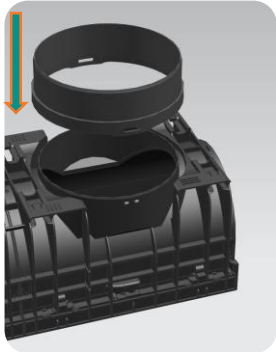
Name NA(EU)	12" Bottom outlet nozzle for channels Base (Bottom outlet nozzle DN315 for plastic channels Base)
Overall diameter, inch (mm)	12-7/8" (326)
Heights, inch (mm)	4" (103)
Diameter of the outlet, inch (mm)	12-3/8" (314)
Weight, lb (kg)	0.95 (0,430)
Article	6857

Functionality of the outlet bottom

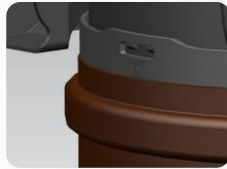
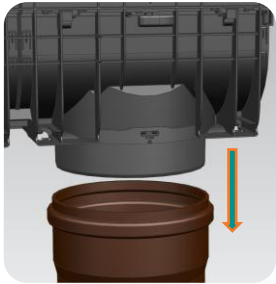
Step. 1 Before installing the spigot on the channel outlet, use a cutting tool to make a hole in the channel outlet marker to allow water to pass through to the drainage point.



Step. 2 Mount the spigot on the channel outlet, securing it against vertical displacement so that the protruding teeth of the channel outlet fit into the spigot windows on both sides.



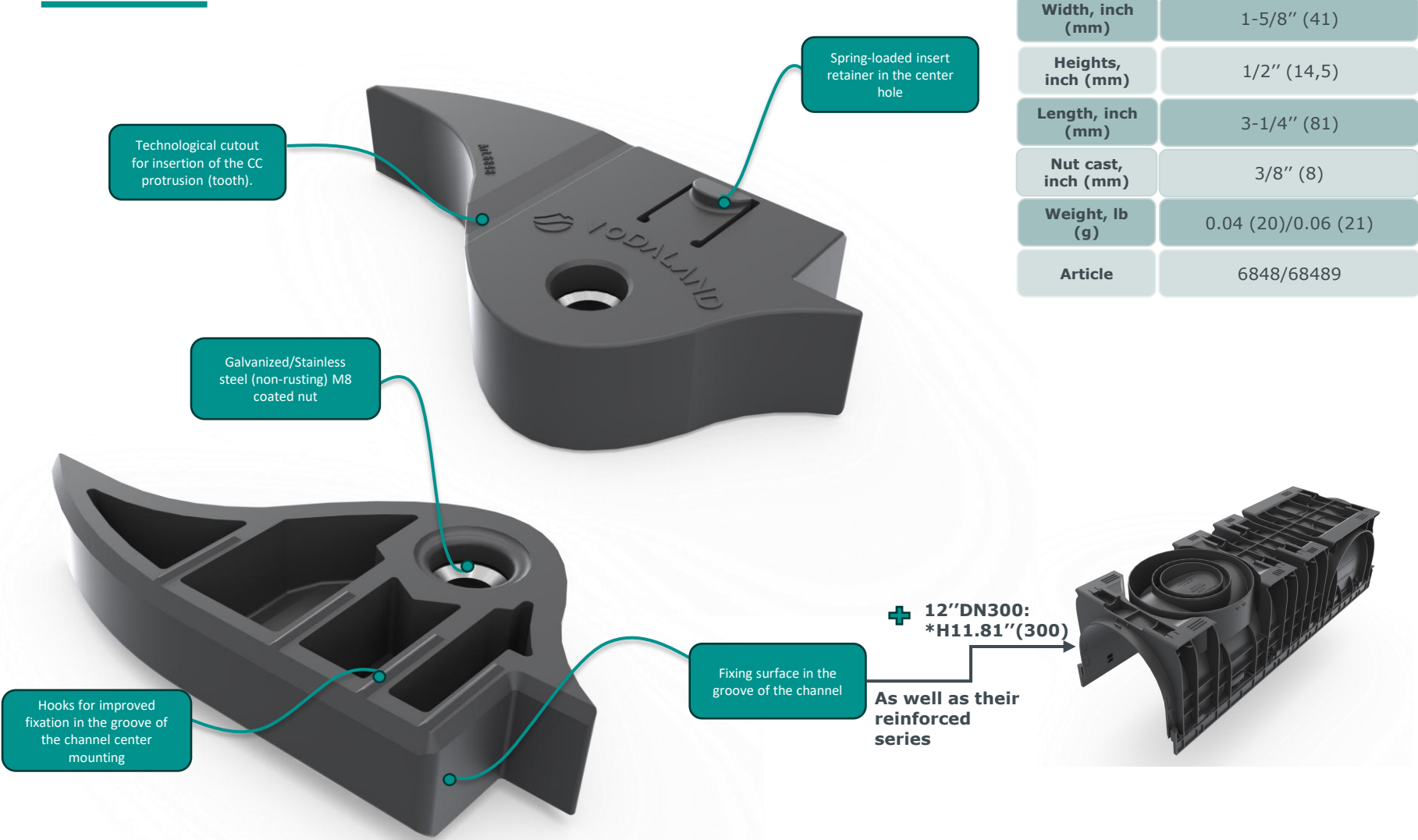
Step. 3 After installing the spigot on the channel, mount the channel so that the flange of the sewer pipe is in the final position against the side of the spigot.



Example of connecting the extension pipe 12" DN315 to the channel 12" DN300

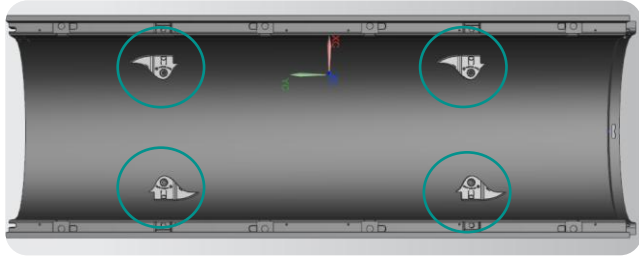


Insertion of the center fasteners



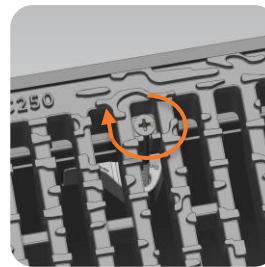
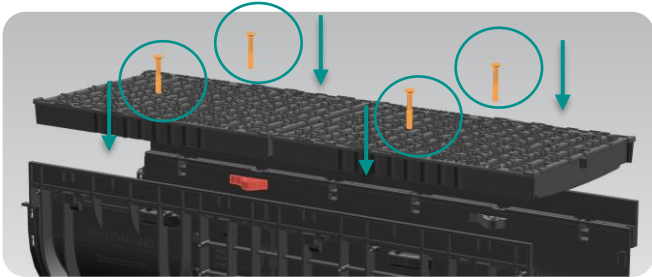
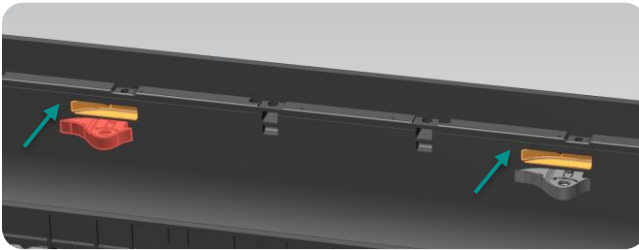
Name NA(EU)	Plastic universal insert for central fastening/Plastic universal insert for central fastening with stainless steel nut
Width, inch (mm)	1-5/8" (41)
Heights, inch (mm)	1/2" (14,5)
Length, inch (mm)	3-1/4" (81)
Nut cast, inch (mm)	3/8" (8)
Weight, lb (g)	0.04 (20)/0.06 (21)
Article	6848/68489

Functionality of the fastener insert



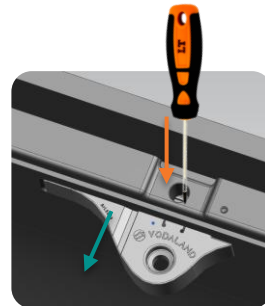
Step. 1 Before mounting the grate. Four inserts per 1 channel are required.

Step. 2 Insert the insert into the groove of the center fixture until the spring-loaded tooth clicks.



Step. 3 The grate is mounted on the sides of the channel and fixed to the inserts with 4 - M3/8" (8) screws, in the case of a 12" DN300 channel – a 2.36" (60) screw.

Step. 4 Dismantle the insert in the reverse order. Loosen the screws, remove the grate, and use a screwdriver or similar screw to press the spring-loaded tooth of the insert through the hole in the central mounting.



Name NA(EU)

-Plastic universal insert for central fastening with screw 2.36" (Plastic universal insert for central fastening with screw 60mm)
-Plastic universal insert for central fastening with stainless steel screw 2.36" (Plastic universal insert for central fastening with stainless steel screw 60mm)

Width, inch (mm)

1-5/8" (41)

Heights, inch (mm)

1/2" (14,5)

Length, inch (mm)

3-1/4" (81)

Screw, inch (mm)

M3/8"-2.36" (M8x60)

Weight, lb (g)

0.1 (45)

Article

6848-60/68489-60

Galvanized or stainless steel screw M3/8"-2.36" (M8*60)



Advantages

Details



Resistant to weathering

The polymer material is resistant to corrosion and oxidation (acidification)



4 points for fixing the grates

Can not be loosened during vibrations and mechanical impact



Easy installation and dismantling

A simple click system with a spring-loaded tooth and appropriate design allows you to easily fix the bet and remove it if necessary

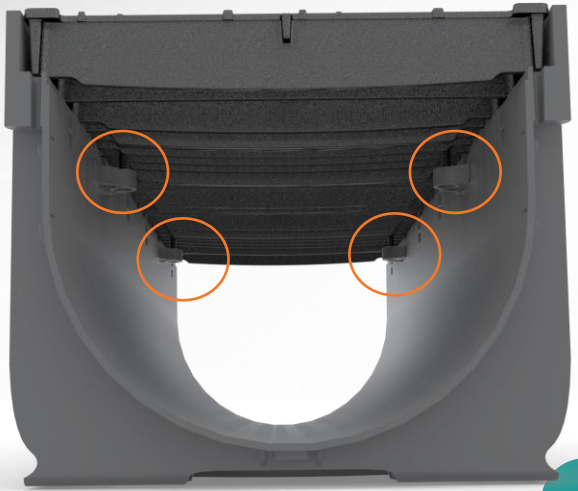
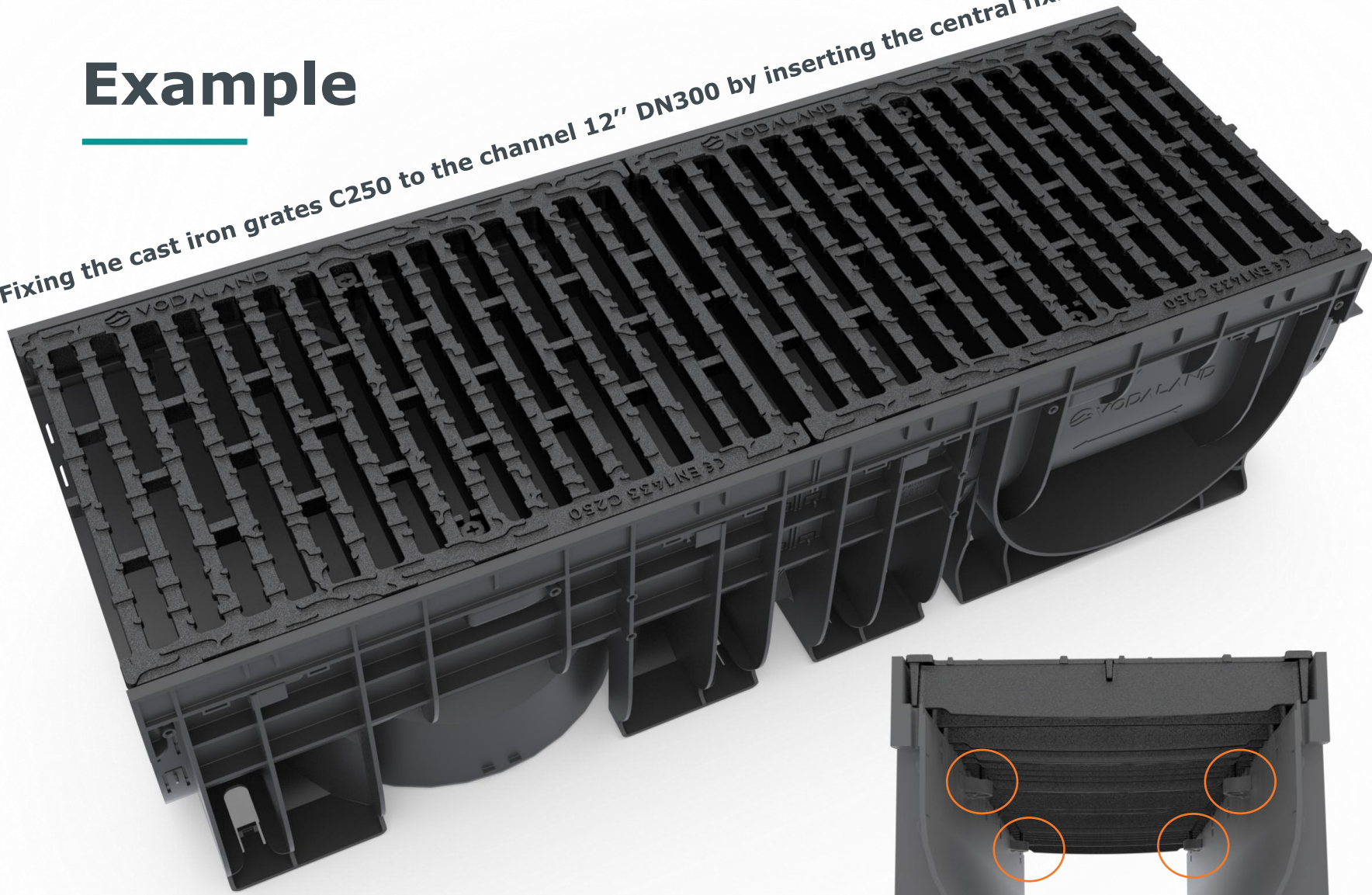


Technological design

The radius profile makes it easy to clean the channel effectively and without obstacles.

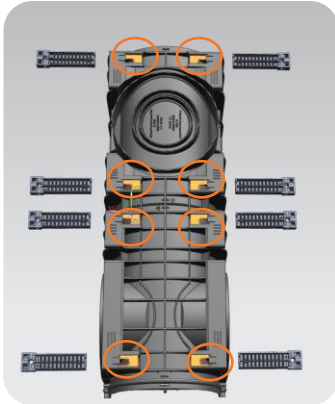
Example

Fixing the cast iron grates C250 to the channel 12" DN300 by inserting the central fixing

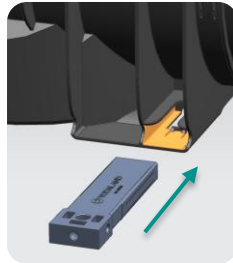


Secure connection without unintentional loosening! 4 fixing points for the cast iron grate.

Functionality of the mounting bracket

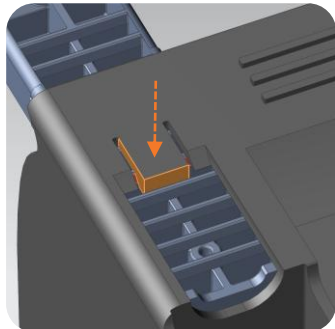
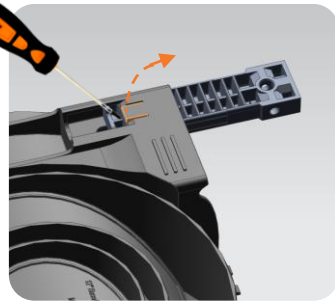


Step 1. The design of the channel provides 8 places for the bracket to fit. That is, four places per side

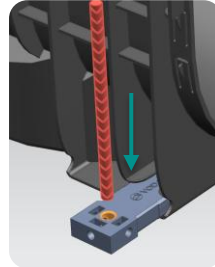


Step 2. The bracket design includes stiffening ribs that serve as stops when adjusting the bracket position.

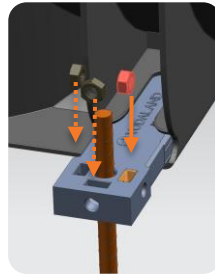
Additionally: when removing the bracket, use a screwdriver to loosen the elastic prong, thereby releasing the bracket.



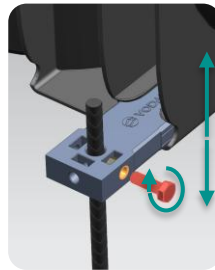
Additionally. The retainer is an elastic tooth of the channel, which bends during bracket placement and allows you to mount the bracket all the way.



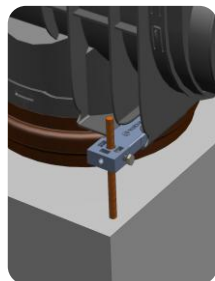
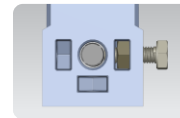
Step 3. Reinforcement with a diameter of up to 1/2" (12) mm is mounted through the central hole of the bracket.



Step 4. The nut is inserted into the appropriate place in the bracket. Three sides of installation are available for convenience.

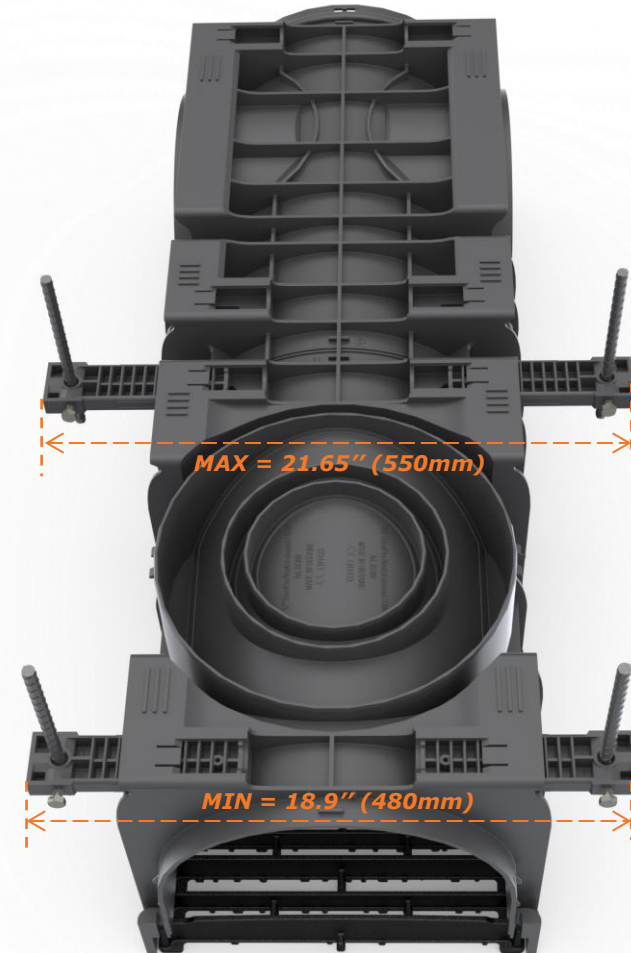


Step 5. After installing the nut, adjust the height of the channel and fix it with bolts to prevent vertical displacement.



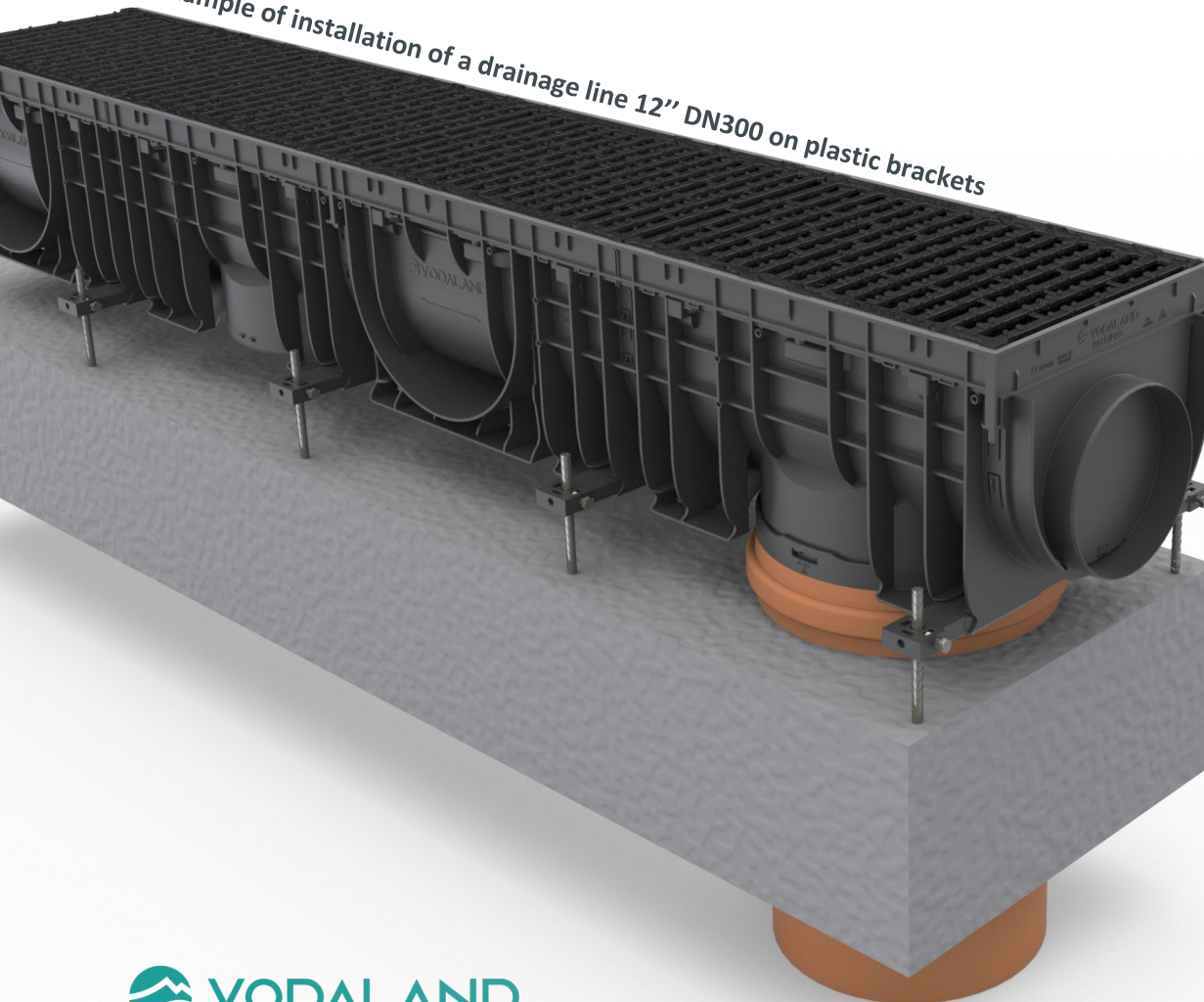
Step 6. After verifying the width and height of the ducts, the first stage of pouring the concrete cage takes place.






Example. Adjustment distance of the bracket mounting width on the channel 12" DN300



Advantages of plastic brackets

Example of installation of a drainage line 12" DN300 on plastic brackets



Advantage	Details
 Resistant to weathering	The polymer material is resistant to corrosion and oxidation (acidification).
 8 fixing points during installation	A large number of variations and combinations of applications. Rigid mounting structure due to the increased contact area of bracket and reinforcement.
 Easy installation and dismantling	The simple click system with its elastic prongs and appropriate design makes it easy to fix the brace and remove it if necessary.
 Variability of fixing the reinforcement	Three places for fixing the reinforcement with screws, provides convenient access to fixing from any position
 Flexibility in different conditions	The special design of the bracket and the fit under it in the channel allows you to adjust the bracket's reach, thereby increasing the installation width

Note: this is one scheme of many mounting variations. In this variant, the braces are mounted at the end of the channel and in the center, i.e. 4 seats out of 8 are used. With this option, each subsequent beginning of the channel is supported and fixed by the end of the previous one, and the center additionally strengthens the structure.

Areas of application of the Base series

⚠️ 12" DN300 — maximum throughput among the available polymer channels

Thanks to its extra-wide hydraulic cross-section, 12" DN300 provides several times the water drainage capacity of 4", 8" DN100-200. This is a critical solution for protecting areas from flooding, especially in conditions of heavy rainfall, floods, industrial discharge or drainage from large surfaces.

◆ CLASS C250 (for moderate load)

Areas of application (12" DN300 H11.81" (300), C250):

City streets with light to medium traffic

Roadside, central boulevards, traffic circles

Parking lots of shopping centers with large catchment areas

In-block drainage collectors in densely populated areas

Channels for mass collection of surface water after storms or snowmelt

Backup drainage solution for areas where 8" DN200 cannot cope

✦ Advantages:


-High performance with minimal installation height

- The optimal choice for the reconstruction of old rainwater collectors

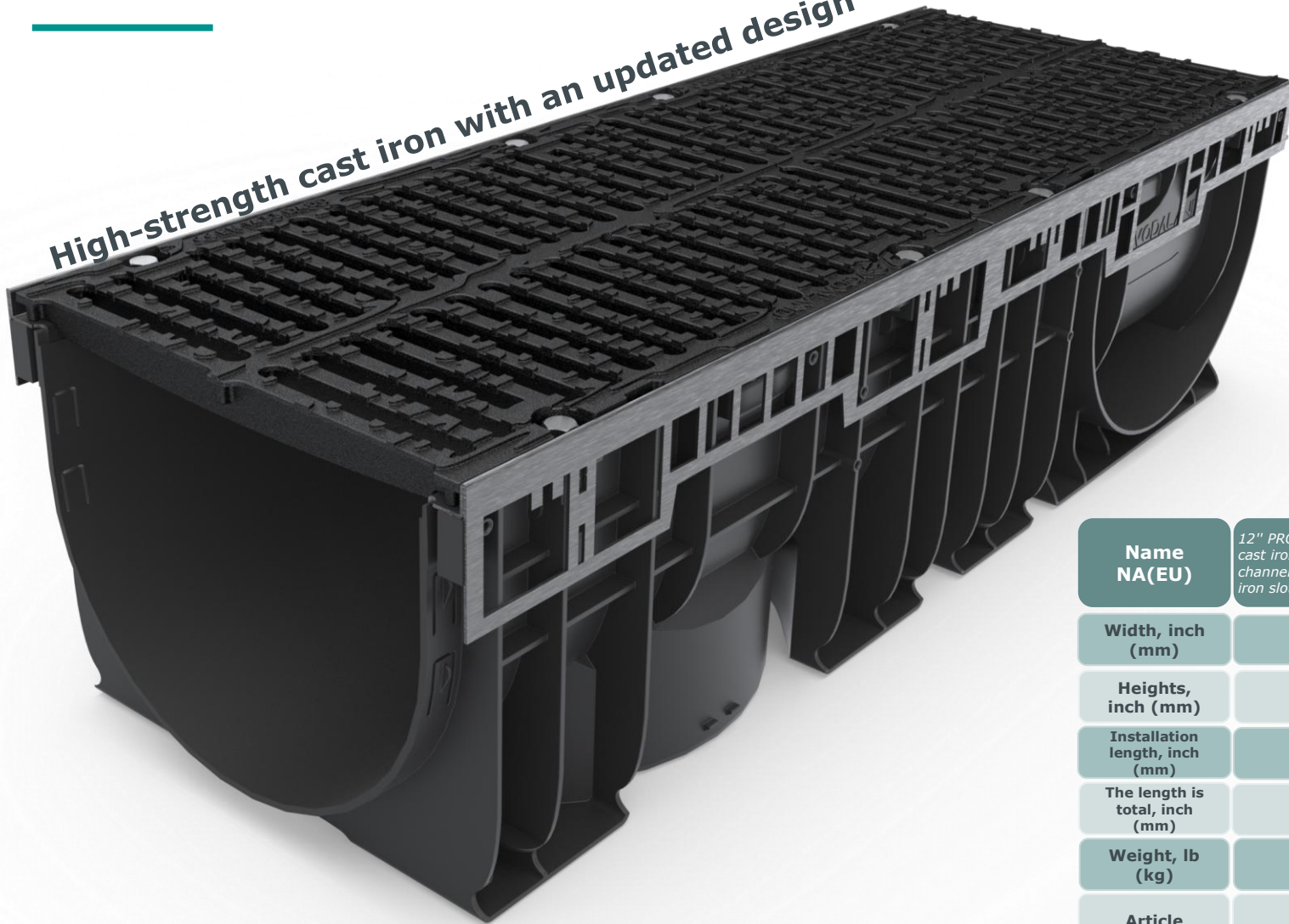


Series PRO D400 H10.83''(275)

High-strength cast iron with an updated design

Note: The complete set of the PRO series is shown on the [slide 5](#). 

Note: The functionality of the kit is unified to that described on the [slide 24](#).



Name NA(EU)	12" PRO Neutral Channel H10.83" with cast iron slotted grate D400 (Plastic channel PRO DN300 H275 with cast iron slotted grate D400)
Width, inch (mm)	14-1/8" (360)
Heights, inch (mm)	10-7/8" (275)
Installation length, inch (mm)	39-3/8" (1000)
The length is total, inch (mm)	40-1/4" (1021)
Weight, lb (kg)	90.83 (41,2)
Article	0873003043

Areas of application of the PRO series

CLASS D400 (for high load)

■ Areas of application (12" DN300 H11.81" (300), D400):

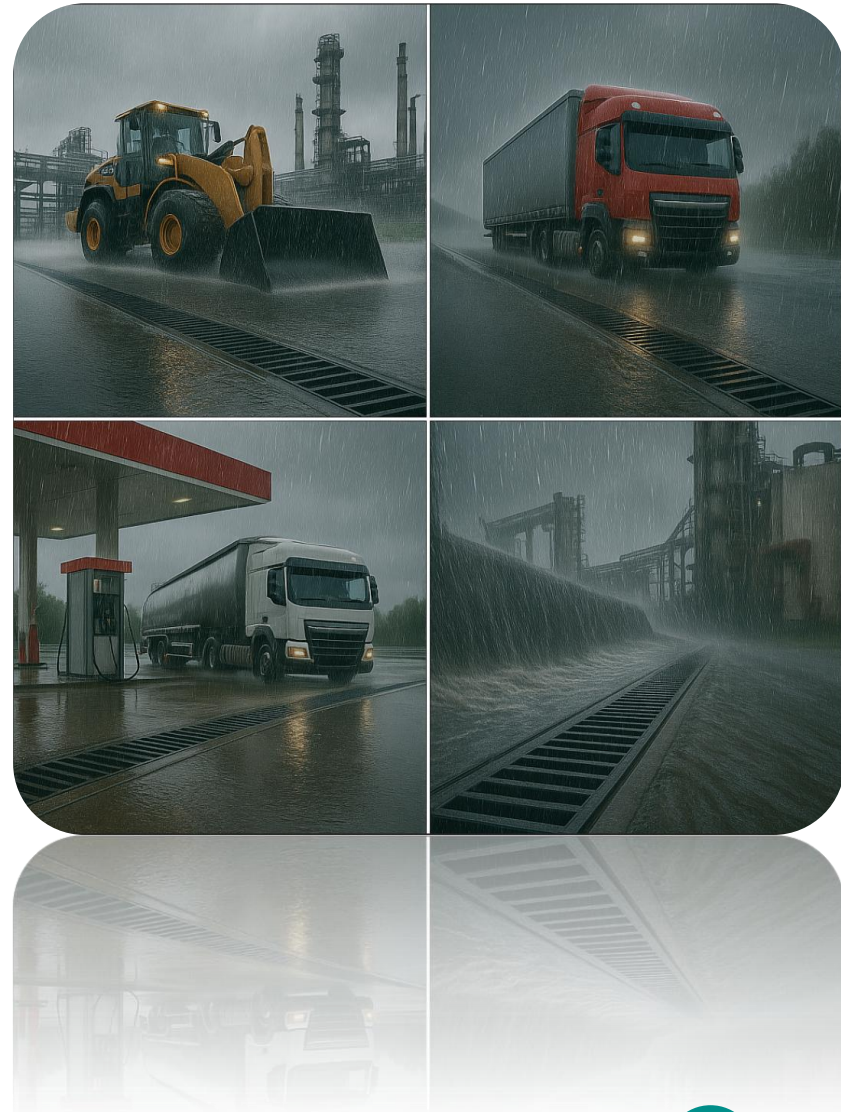
- Industrial facilities with heavy traffic of heavy machinery
- Airport parking lots, logistics hubs, loading docks
- Freeways, highways, interchanges with concrete cage
- Emergency drainage zones near thermal power plants, sewage treatment plants
- Gas stations, industrial car washes, concrete sites for industrial water discharge

Places with potential flood hazards or where there is regular peak precipitation

✦ Advantages:

Works as the "main line of water protection"

Ideal for concreting with a reinforced heel



Configuration matrices



Matrix of products of the BASE class lines

Link Complete set of accessories with divided borders
 If there is no visible boundary, the product is universal for several lines

Line	Channel	Combination end cup (one/end of channel)	End cup with outlet (channels end)	Cascade adapters	Outlet bottom	Center fasteners (Screw, 2.36" (60) - only for high side grates)	Insertion of central fasteners	Cast iron grates (K-KTL)	Grated stamped	Welded grates (s-stainless)	Sand trap			ST grates 19.6" (0.5m)	Brace Universal
											ST	Adapt ers	Set		
6" DN150	82100/82101 3.94"/4.92" (Hig.b) H100/H125 (Hig.b)	632100	6321008 3" DN75	6327.1 3.94"-7.87" H100-H200	68655 4" DN110	68211-35 (OZ) 682119-35 (SS) 68211-60 (OZ) 682119-60 (SS)	68211-35 (OZ) 682119-35 (SS) 68211-60 (OZ) 682119-60 (SS)	22303 22303-K C250	22101 A15	22202 (OZ) 22502 (SS) B125	8580182 8581182 (w.o. bas.)	25151 A15	252516(OZ) 255516 (SS.) A15		
	82200/82201 7.87"/8.86" (Hig.b) H200/H225 (Hig.b)	632-2 4" DN110				6120-35 (OZ) 6120-60 (OZ)	6120-35 (OZ) 6120-60 (OZ)	224031-ADA 224031-ADA-K C250 - Hig.b	22901 A15		8580182.9 8581182.9 (w. bas.)	25951 A15			
8" DN200	85100/85101 3.94"/4.92" (Hig.b) H100/H125 (Hig.b)	635100	6351008 3" DN75	6357.1 3.94"-7.87" H100-H200	6852 6" DN160	68511-35 (OZ) 685119-35 (SS) 68511-60 (OZ) 685119-60 (SS)	68511-35 (OZ) 685119-35 (SS) 68511-60 (OZ) 685119-60 (SS)	25303 25303-K C250	25101 A15	252016 (OZ) 255016 (SS) A15	8580 21.65" H550	25252 (OZ) 25552 (SS.) B125 ADA	252518 (OZ) 255518 (SS.) A15 ADA (w.o. CF)	68601	
	85200/85201 7.87"/8.86" (Hig.b) H200/H225 (Hig.b)	635-2 4" DN110			6855 8" DN200	62507-35 (SS) 62507-60 (SS)	62507-35 (SS) 62507-60 (SS)	254031-ADA 254031-ADA-K C250 - Hig. B	25901 A15	25202 (OZ) 25502 (SS) B125 ADA	8581 (Hig.b) 22.64" H575	252518 (OZ) 255518 (SS.) A15 ADA (w.o. CF)	2525181 (OZ) 2555181 (SS.) A15 ADA (w. CF)		
	85300/85301 11.81"/12.8" (Hig.b) H300/H325 (Hig.b)	635-4 8" DN200				61507-35 (OZ) 61507-60 (OZ)	61507-35 (OZ) 61507-60 (OZ)	2530211 2530211-K C250	25901 A15	2520181 (OZ) 2550181 (SS) A15 ADA (w. CF)	68518	858018.9 858118.9 (w. bas.)	2525281 (OZ) 2555281 (SS.) B125 ADA (w. CF)		
12" DN300	87300 11.81" H300 (Hig.b)	637300 8" DN200			6857 12" DN315 Only under the 12" DN300		6848-60 (OZ) 68489-60 (SS)	2730311 2730311-K C250			6859				

Matrix of products of the BASE class

lines reinforced series

[Link](#)

Note: 6", 8", 12" DN150, 200, 300 lines are separated by a different background color.

Complete set of accessories with divided borders




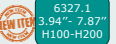











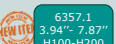
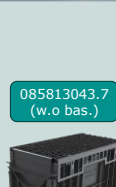



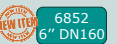

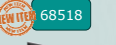
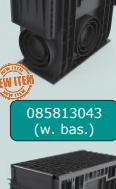









If there is no visible boundary, the product is universal for several lines

Line	Grate (OZ)-galvanized nozzle (SS)-stainless steel nozzle	Combination cup (start/end of channel)	End cup with outlet (channels end)	Cascade adapters	Outlet bottom		Center fasteners, fasteners, (Screw 2.36" (60) - only for high side grates)	Insertion of central fasteners	Cast iron grates (K-K1L)	Grated stamped	Welded grates (s-stainless)	Sand trap			ST grates 19.6" (0.5m)	Brace Universal
					ST	Adapters ST						Set				
6" DN150	82107 (OZ) 821079 (SS) H3.94" (100)	632100	6321008 3" DN75			68655 4" DN110	68211-35 (OZ) 682119-35 (SS) 68211-60 (OZ) 682119-60 (SS)		22303 22303-K C250		22202 (OZ) 22502 (SS) B125		685182	8587182 (OZ) 85879182 (SS)	25151 A15	
	82207 (OZ) 822079 (SS) H7.87" (200)	632-2 4" DN110				6852 6" DN160	6120-35 (OZ) 6120-60 (OZ)	6848	224031-ADA 224031-ADA-K C250 - Hig. b.	22101 A15		8587 (ou.) 85879 (w.) 21.65" (H550)		8587182.9 (OZ) 85879182.9 (SS)	25951 A15	
8" DN200	85107 (OZ) 851079 (SS) H3.94" (100)	635100	6351008 3" DN75			6855 8" DN200	6220-35 (SS) 6220-60 (SS)		2230211 2230211-K B125	22901 A15				252516(OZ) 255516 (SS.) A15	68601	
	85207 (OZ) 852079 (SS) H7.87" (200)	635-2 4" DN110				6852 6" DN160	6220-35 (SS) 6220-60 (SS)		2230311 2230311-K C250					25252 (OZ) 25552 (SS) B125 ADA		
	85307 (OZ) 853079 (SS) H11.81(300)	635-4 8" DN200				6357.1 3.94" - 7.87" H100-H200	62507-35 (SS) 62507-60 (SS)		254031-ADA 254031-ADA-K C250 - Hig. b.	25101 A15	252016 (OZ) 255016 (SS) A15	6859		858718 (OZ) 8587918 (SS)	252518 (OZ) 255518 (SS) A15 ADA (w.o CF)	
					6357.2 7.87"-11.8" H200-H300		61507-35 (OZ) 61507-60 (OZ)		2530211 2530211-K C250	25901 A15	252018 (OZ) 255018 (SS) A15 ADA (w.o CF)		68518	858718.9 (OZ) 8587918.9 (SS)	2525181 (OZ) 2555181 (SS) A15 ADA (w. CF)	
									2530311 2530311-K C250		2520181 (OZ) 2550181 (SS) A15 ADA (w. CF)			2525281 (OZ) 2555281 (SS) B125 ADA (w. CF)		
									25403-ADA 25403-ADA-K C250		2520281 (OZ) 2550281 (SS) B125 ADA (w. CF)					



Matrix of products of the PRO class lines

Link Complete set of accessories with divided borders
 Note: 6", 8", 12" DN150, 200, 300 lines are separated by a different background color.
 If there is no visible boundary, the product is universal for several lines

Line	Grates	Combinati on end cup (start/end of channel)	End cup with outlet (channels end)	Cascade adapters	Outlet bottom	Sand trap			Brace universal
						ST	Adapt ers ST	Set	
6" DN150	 <p>082103043 H4.92" (125) D400</p>	 <p>632100</p>	 <p>6321008 3" DN75</p>	 <p>6327.1 3.94" - 7.87" H100-H200</p>			 <p>0858123043.7 (w.o. bas.)</p>		
	 <p>082203043 H8.85" (225) D400</p>	 <p>632-2 4" DN110</p>		 <p>6327.1 3.94" - 7.87" H100-H200</p>	 <p>68655 4" DN110</p>	 <p>0858123043 22.24" (H565)</p>	 <p>0858123043 (w. bas.)</p>	 <p>68601</p>	
8" DN200	 <p>085103043 H4.92" (125) D400</p>	 <p>635100</p>	 <p>6351008 3" DN75</p>	 <p>6357.1 3.94" - 7.87" H100-H200</p>		 <p>085813043.7 (w.o. bas.)</p>			
	 <p>085203043 H8.85" (225) D400</p>	 <p>635-2 4" DN110</p>		 <p>6357.2 7.87" - 11.8" H200-H300</p>	 <p>6852 6" DN160</p>	 <p>6859</p>	 <p>68518</p>	 <p>085813043 (w. bas.)</p>	
	 <p>085303043 H12.8" (225) D400</p>	 <p>635-4 8" DN200</p>		 <p>6357.2 7.87" - 11.8" H200-H300</p>	 <p>6855 8" DN200</p>	 <p>6857 12" DN315 Only under the 12" DN300</p>	 <p>085813043 (w. bas.)</p>		
12" DN300	 <p>87303043 H10.83" (275) D400</p>	 <p>637300 8" DN200</p>			 <p>6857 12" DN315 Only under the 12" DN300</p>				



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