



8'' (200)

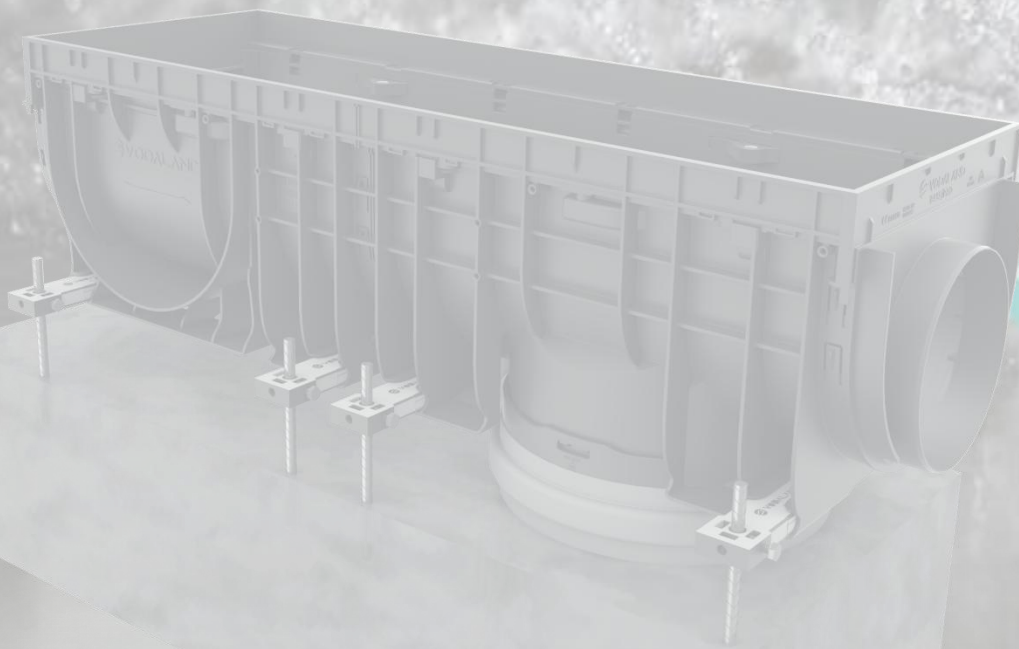
New lines of surface drainage systems



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 8" (DN200)**, 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:

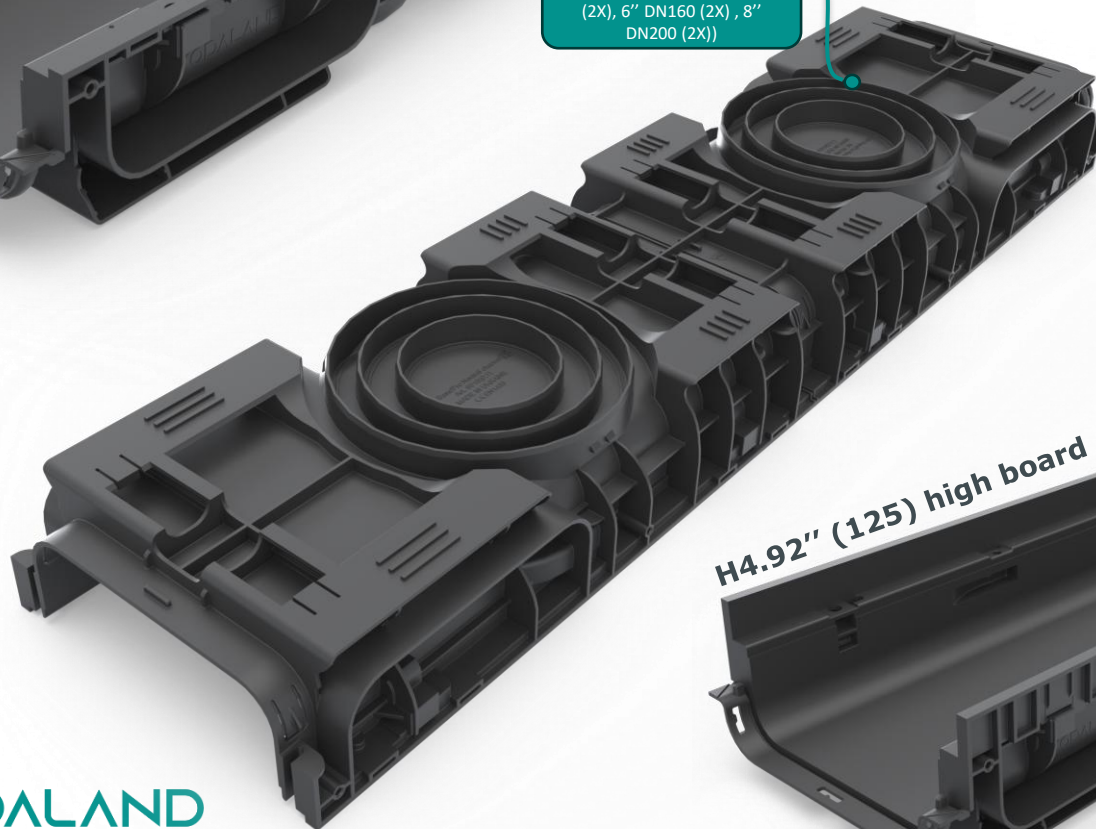
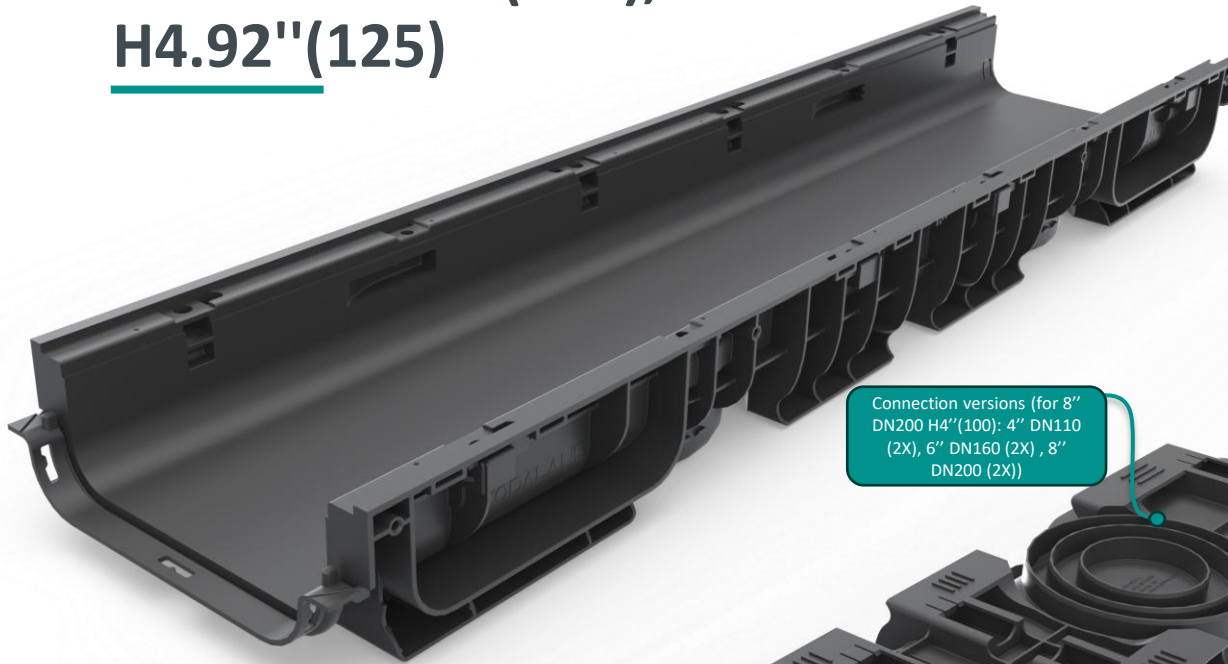
- ▶ Unique mounting solutions
- ▶ Versatile components for different applications
- ▶ Multiple discharge points with variable connections



Hydraulic modularity:

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

Channels H4"(100), H4.92"(125)



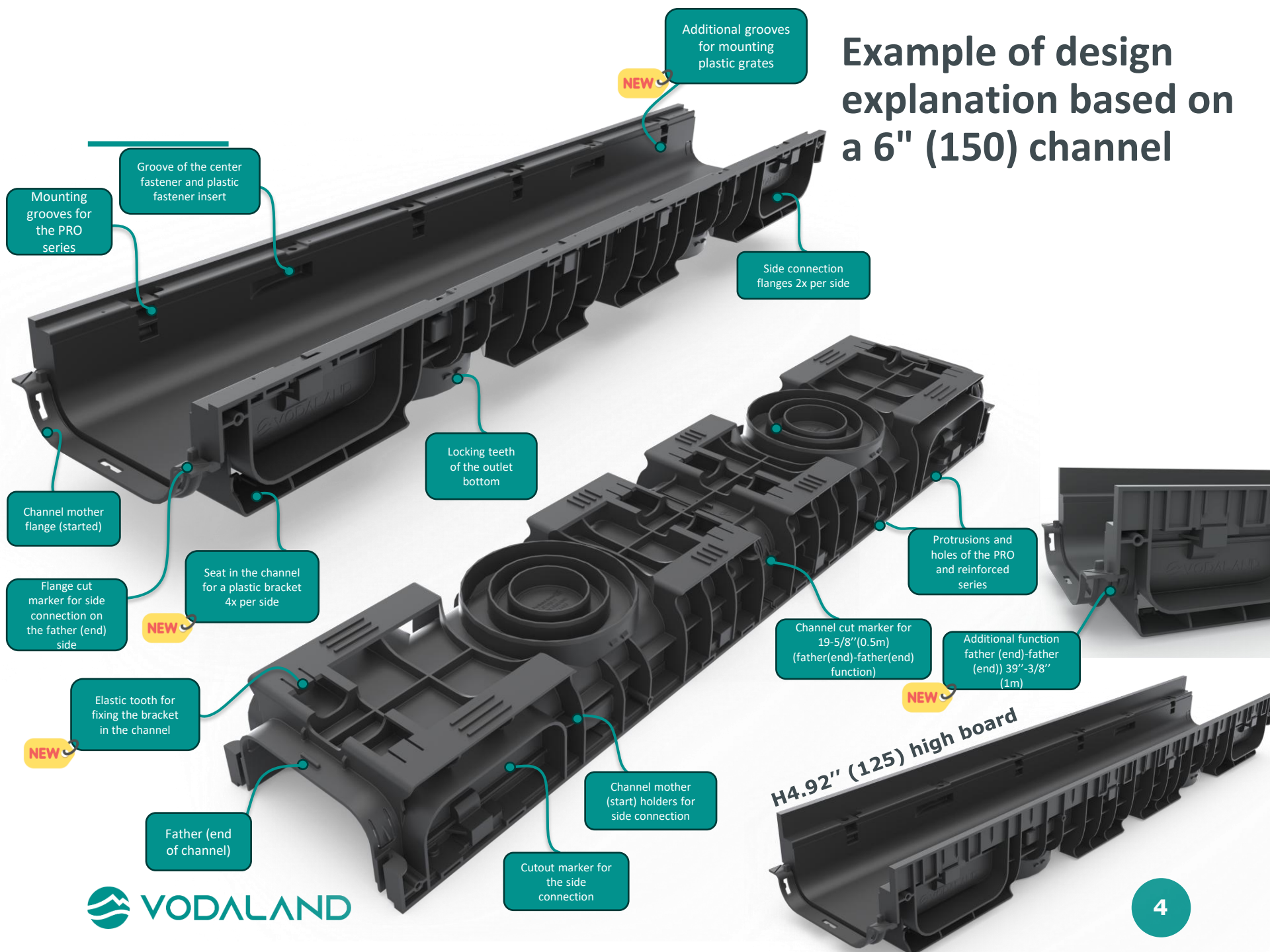
Connection versions (for 8"
DN200 H4"(100): 4" DN110
(2X), 6" DN160 (2X), 8"
DN200 (2X))

H4.92" (125) high board

| | |
|---------------------------------------|--|
| Name NA(EU) | -8" Base Neutral Channel H4" (Plastic channel Base DN200 H100) -8" Base Neutral Channel H4,92" with high board (Plastic channel Base DN200 H125 with high board) |
| Width, inch (mm) | 10-1/8" (256) |
| Heights, inch (mm) | 4" (100); 4-7/8" (125) |
| Installation length, inch (mm) | 39-3/8" (1000) |
| Total length, inch (mm) | 40-1/4" (1021) |
| Weight, lb (kg) | 4.43 (2.01) / 4.85 (2.2) |
| Article | 85100/85101 |

Link  *Note: For a detailed description of the channel design and functionality, please refer to the [slide 4](#)*

Example of design explanation based on a 6" (150) channel



Additional grooves for mounting plastic grates

NEW

Groove of the center fastener and plastic fastener insert

Mounting grooves for the PRO series

Side connection flanges 2x per side

Locking teeth of the outlet bottom

Channel mother flange (started)

Protrusions and holes of the PRO and reinforced series

Flange cut marker for side connection on the father (end) side

Seat in the channel for a plastic bracket 4x per side

NEW

Channel cut marker for 19-5/8" (0.5m) (father(end)-father(end) function)

Additional function father (end)-father (end)) 39"-3/8" (1m)

Elastic tooth for fixing the bracket in the channel

NEW


Father (end of channel)

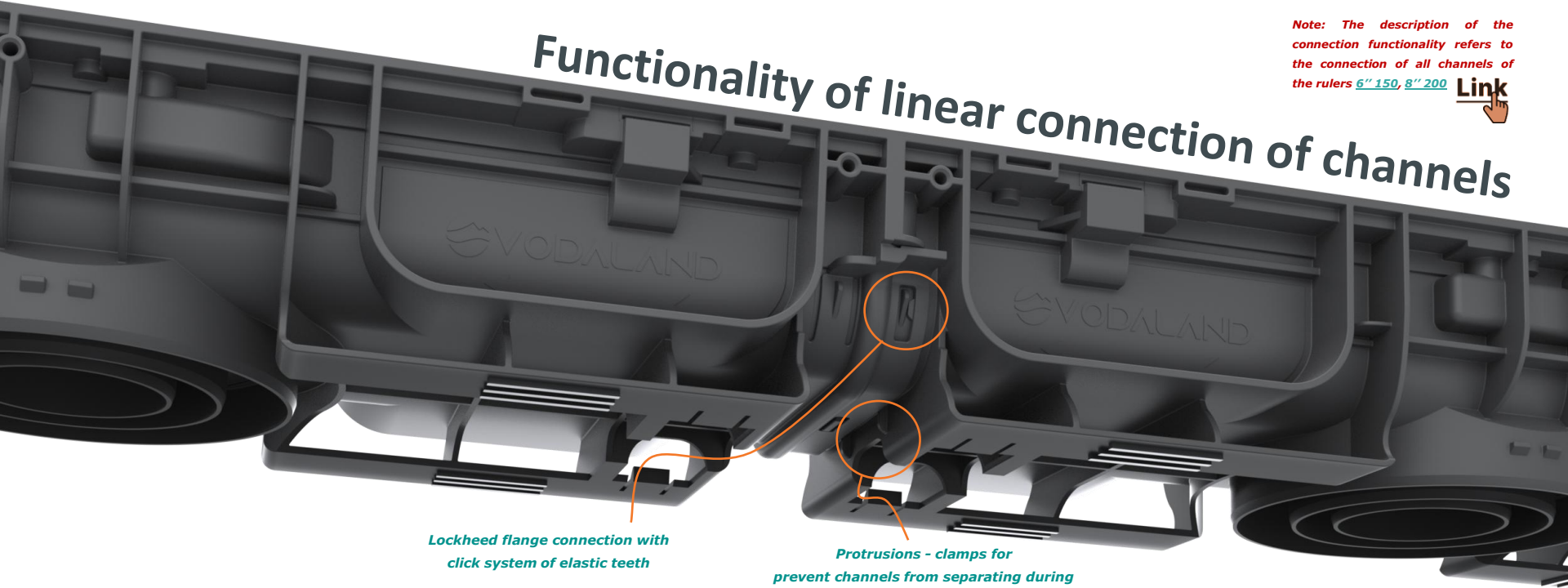
Channel mother (start) holders for side connection

Cutout marker for the side connection

H4.92" (125) high board

Functionality of linear connection of channels

Note: The description of the connection functionality refers to the connection of all channels of the rulers [6" 150](#), [8" 200](#) [Link](#) 



Lockheed flange connection with click system of elastic teeth

Protrusions - clamps for prevent channels from separating during bending during installation or transportation

Function of two father (ends) of a 39-3/8" (1m) channel (for flows to converge to the center)

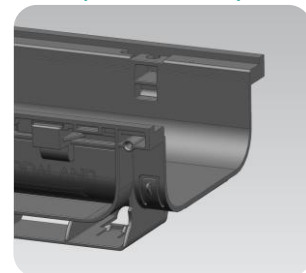
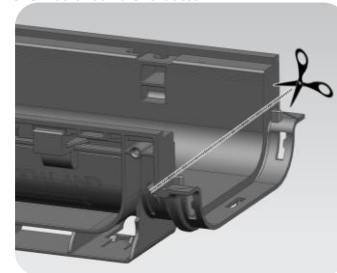
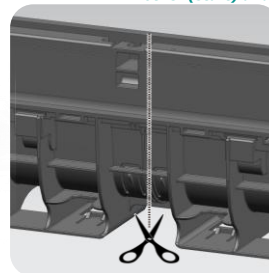


Step 1. If it is necessary to create a branching line of channels from the center in two directions, or to apply the functionality of half a channel, use a cutting tool to cut the channel in the center along the markers and clean the ribs around the bottom 19-5/8" (for 0.5 m), or cut off the flange of the channel mother (start) and clean the ribs around the bottom.

Step 2. After stripping, we get the seat of the father (end of the channel) for connection to the mother flange (start of the channel)



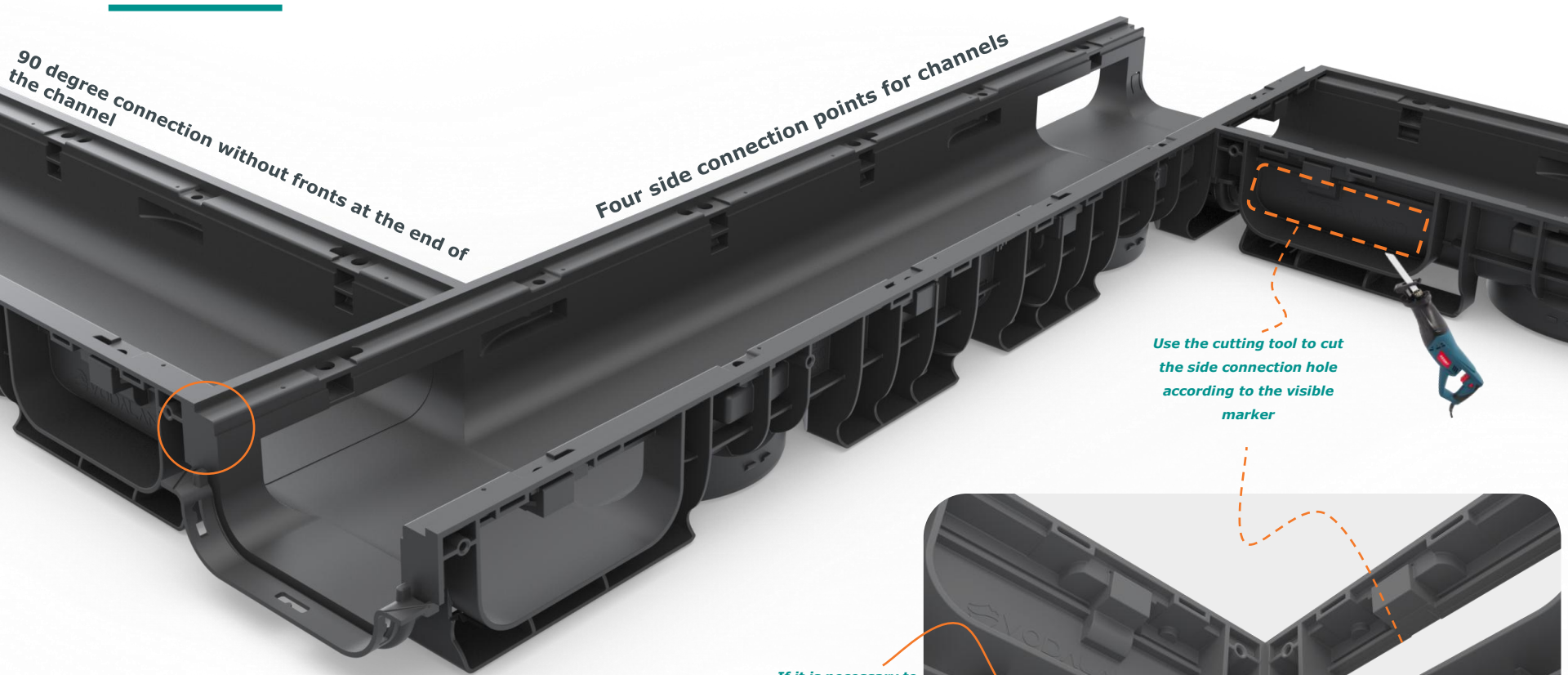
19-5/8" (0.5 m) channel cutting function (for various connection combinations)



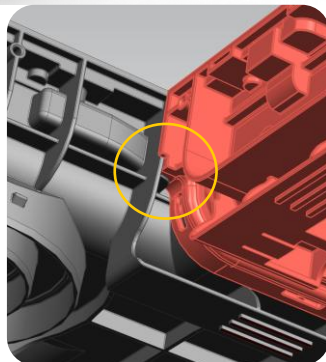
Functionality of the side connection of channels

Note: The description of the connection functionality refers to the connection of all channels of the rulers 6" 150, 8" 200

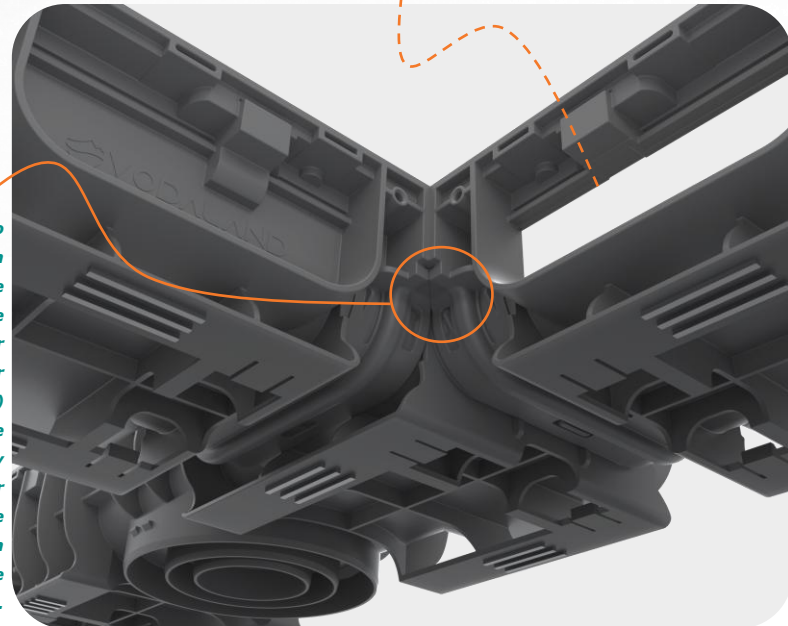
[Link](#)



To prevent vertical displacement of the mounted channel on the side connection, special protrusions are made in the channels to hold the mother (start) flange



If it is necessary to make a side connection from the father side (the end of the line channel) to the mother (the start of the other channel at 90 degrees) in an existing drainage line, then it is necessary to cut off the mother flange (start) along the marker on both channels on the connection side.



End cap for channels H4''(100), H4.92''(125)



| | |
|---------------------------------------|--|
| Name NA(EU) | 8" End cap for channel Base H3.94" (Plastic end cap for plastic channel Base DN200 H100) |
| Width, inch (mm) | 10-1/8" (256) |
| Heights, inch (mm) | 4-1/8" (106) |
| Installation length, inch (mm) | 1-1/2" (38) |
| Weight, lb (kg) | 0.22 (0,102) |
| Article | 635100 |

Note: The detailed description of the channel design and functionality is unified and demonstrated on the [slide 8-11](#).

[Link](#)

| | |
|------------------------------|---|
| Name NA(EU) | 8" End cap for channel Base H3.94" with outlet 2.95" (Plastic end cap for plastic channel Base DN200 H100 with outlet 75) |
| Width, inch (mm) | 10-1/8" (256) |
| Heights, inch (mm) | 4-5/8" (119) |
| Length, inch (mm) | 3-3/8" (87) |
| Outlet under the pipe | 3" (75) |
| Weight, lb (g) | 0.25 (0,113) |
| Article | 6351008 |

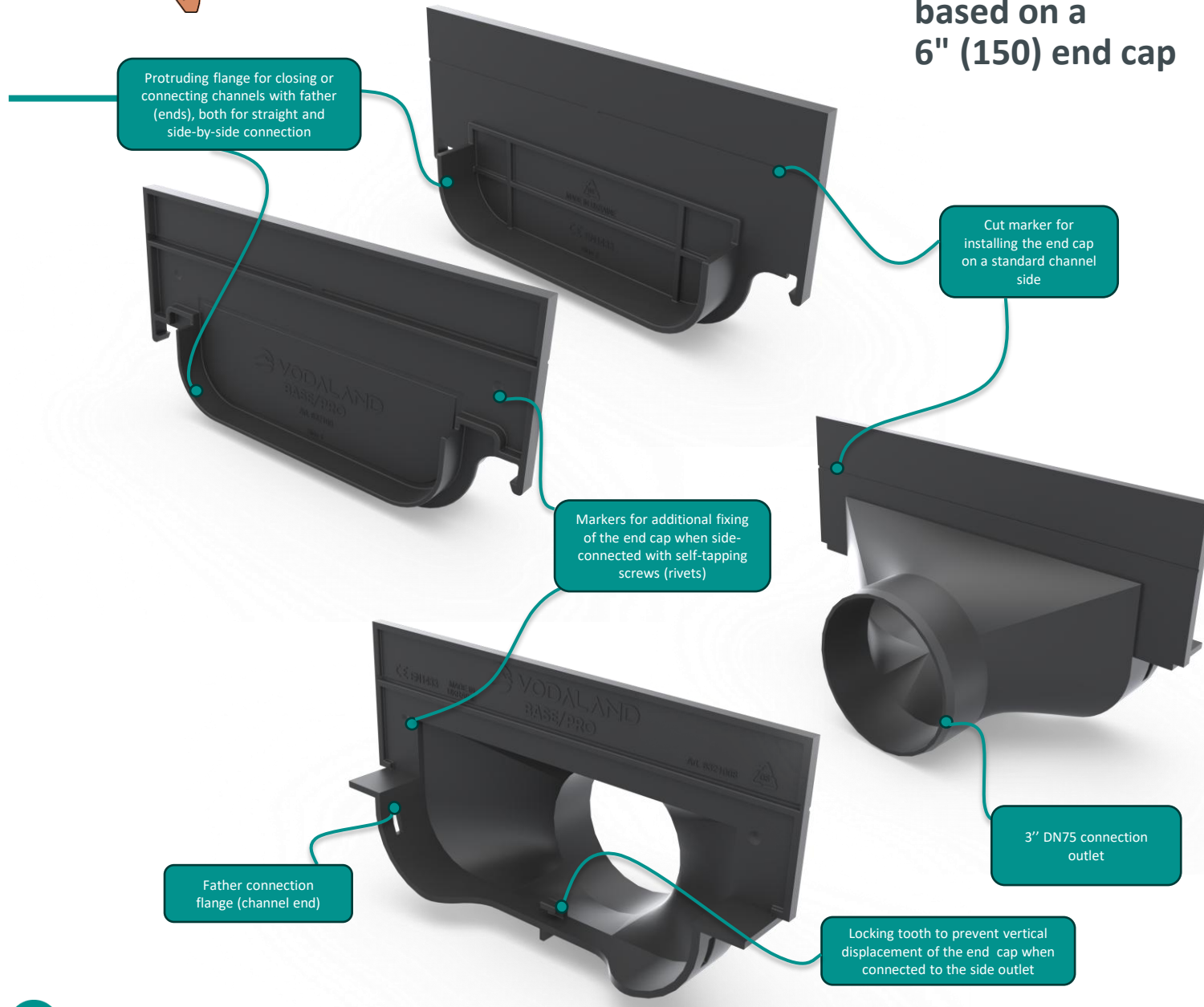
Note: The detailed description of the channel design and functionality is unified and demonstrated on the [slide 8-11](#).

[Link](#)

Note: The description of the design of the end cap is universal and also applies to the [8" DN 200 H4"100](#).

[Link](#)

Example of design explanation based on a 6" (150) end cap



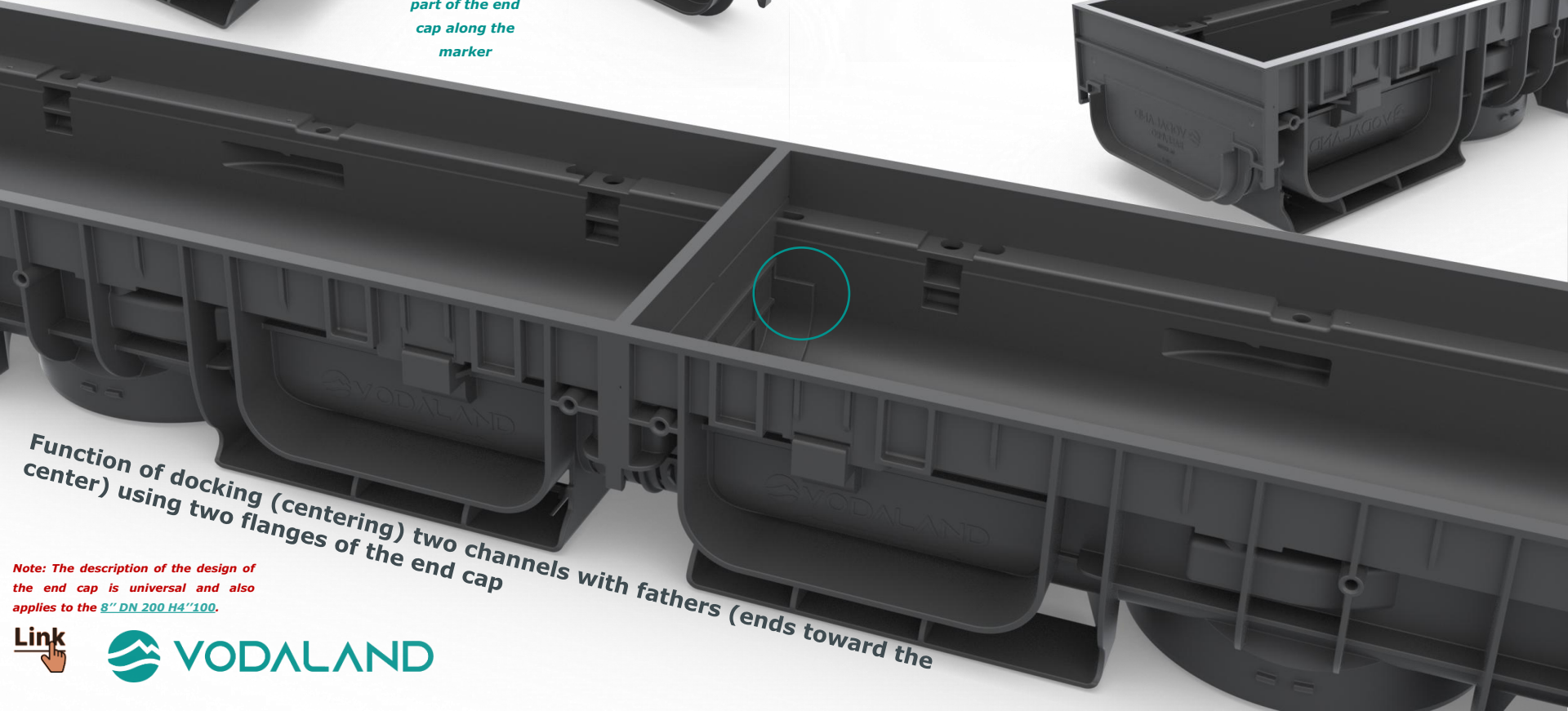
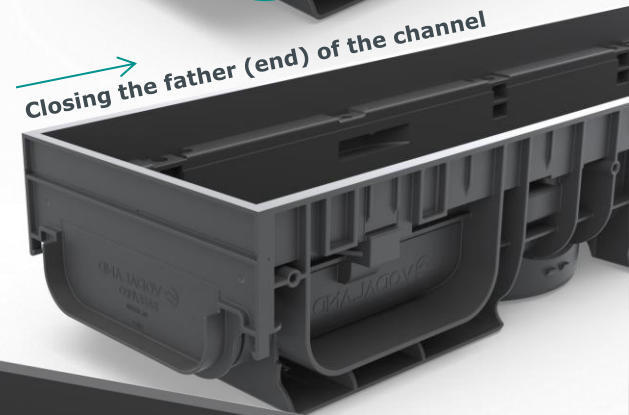
Functionality of the linear connection of channel covers



To close or connect channels standard board, cut off the upper part of the end cap along the marker



The connection of end caps to the channel mother-father (start-end) is similar to the 4" line . The flange of the end cap is fixed in the bottom on the father side (end) of the channel, the elastic tabs fix the cover on the mother side (start of the channel)



Note: The description of the design of the end cap is universal and also applies to the 8" DN 200 H4"100.

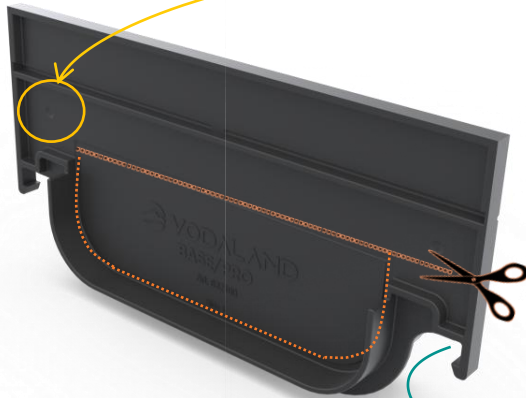


Functionality of the side connection of the channel end cap

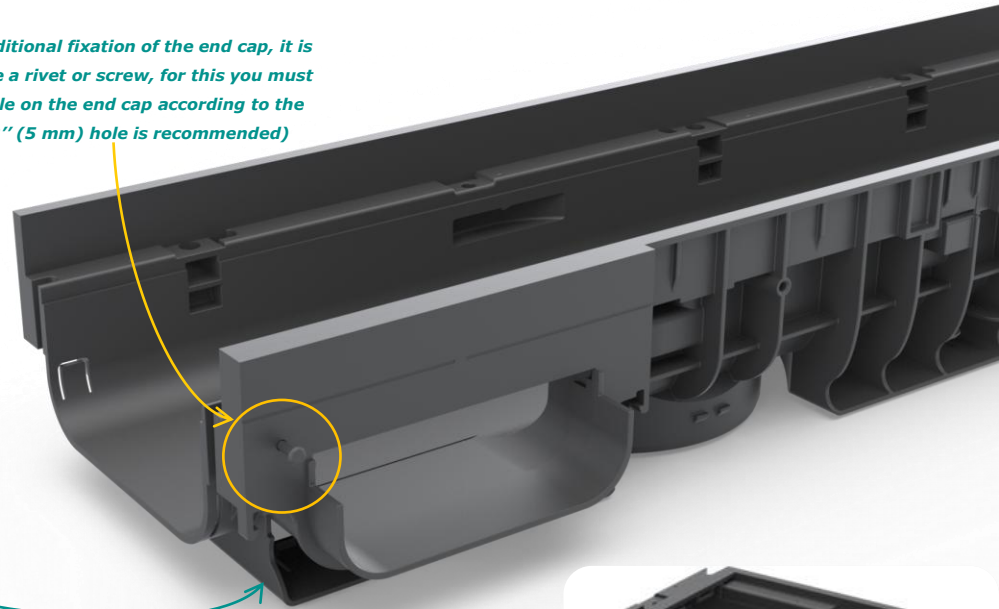
Примітка: Опис функціоналу загнуток універсальний і відноситься також і до загнуток DN 200 H100. [Link](#)



Step 2. If it is necessary to connect the channel father (end) side (centering), cut a hole in the end cap using a marker and use a short flange to connect it to the cut out side of the channel to which it is being connected.



Step 3. For additional fixation of the end cap, it is possible to use a rivet or screw, for this you must first drill a hole on the end cap according to the marker (0,2" (5 mm) hole is recommended)



Функція стиковки (центрування) папкою (кінцем) під 90 град. за допомогою двох фланців загнулки

Крок1. Перед стиковкою загнулки з вирізаним отвором необхідно вирізати отвір по маркеру в лотку до якого стикують



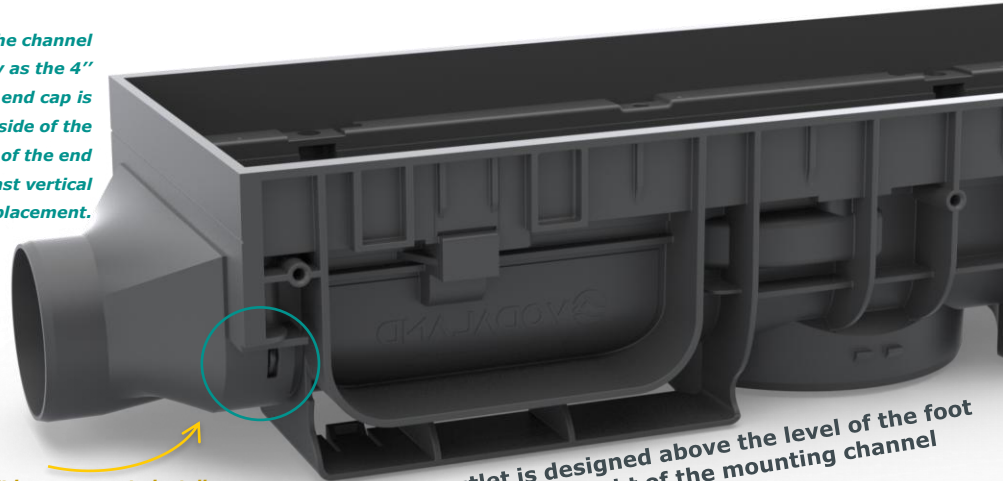
Functionality of linear and side connection of channel end cap with outlet

Note: The description of the design of the end cap is universal and also applies to the 8" DN 200 H4"100. [Link](#)



Step1. Before docking the end cap with the outlet, cut a hole along the marker in the channel to which the other channel is docked at 90 degrees.

The end caps are connected to the channel father (end) in the same way as the 4" DN100 line. The flange of the end cap is fixed with elastic tabs on the side of the channel father (end). The tooth of the end cap secures it against vertical displacement.



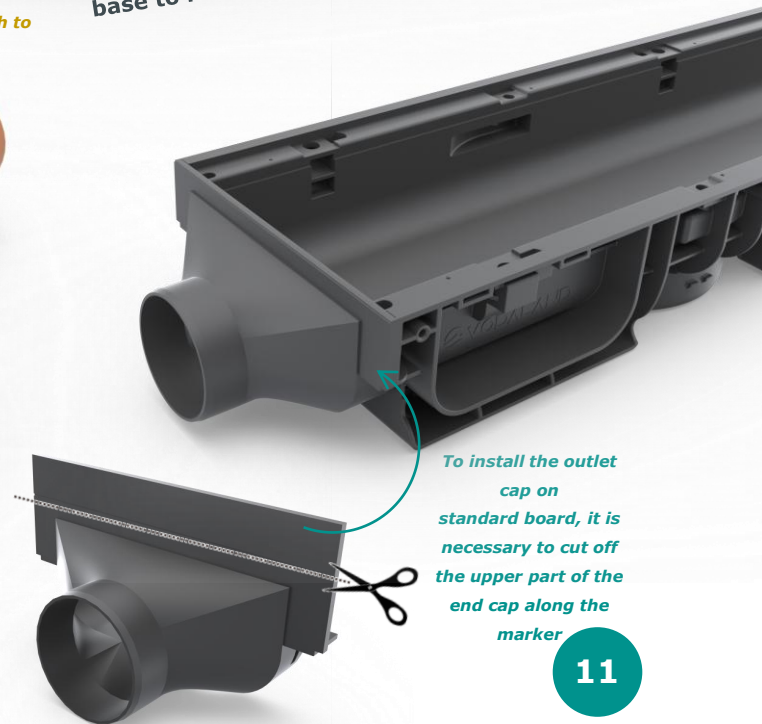
It is necessary to install the end cap from the bottom of the channel, directing the channel tooth to the plane of the gutter

The plug outlet is designed above the level of the foot base to reduce the height of the mounting channel

90-degree side outlet function with a end cap with a release

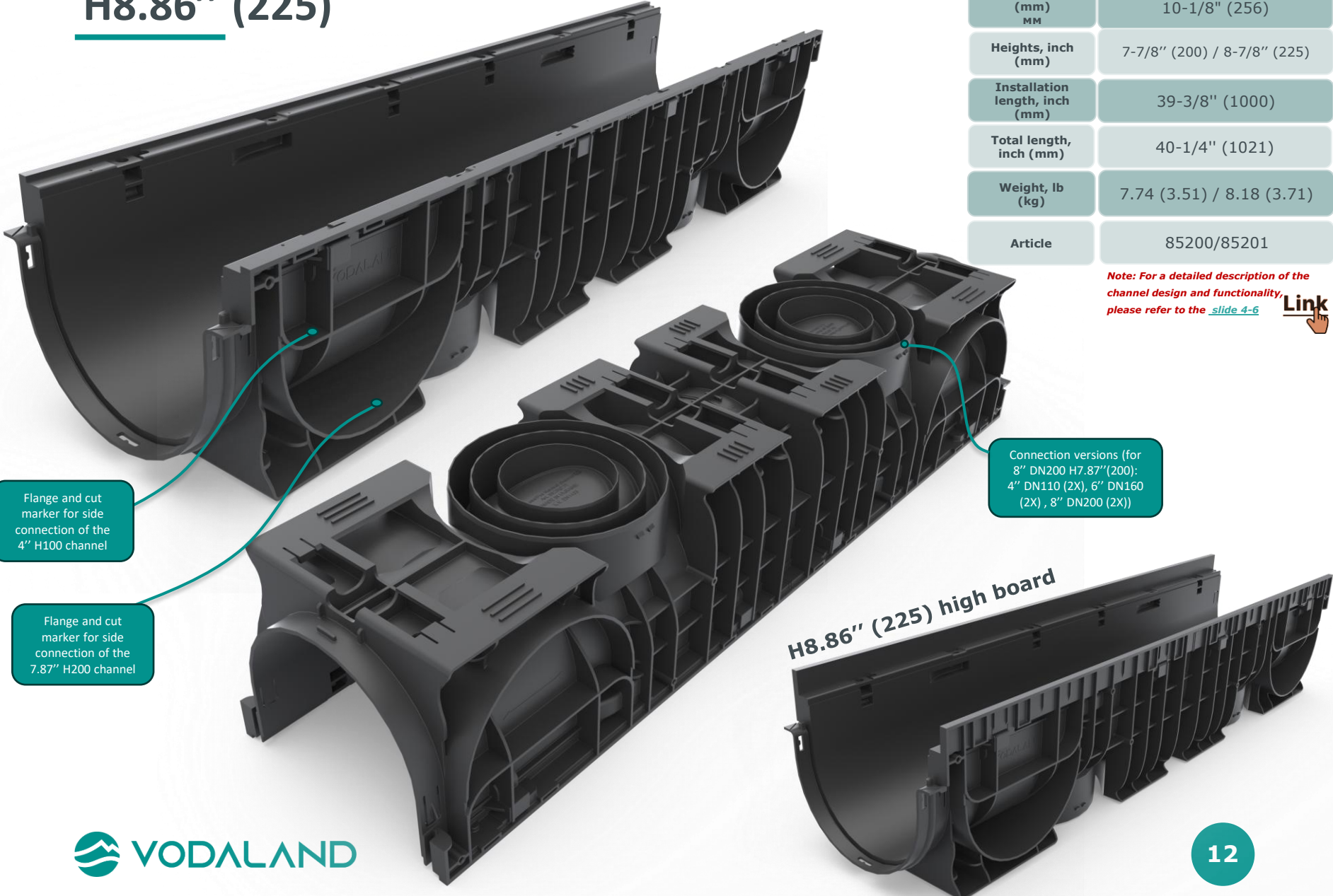


For additional fixation of the end cap, it is possible to use a rivet or screw, for this you must first drill a hole on the plug according to the marker (0.2" (5) mm hole is recommended)



To install the outlet cap on standard board, it is necessary to cut off the upper part of the end cap along the marker

Channel H7.87" (200), H8.86" (225)



Flange and cut marker for side connection of the 4" H100 channel

Flange and cut marker for side connection of the 7.87" H200 channel

Connection versions (for 8" DN200 H7.87"(200): 4" DN110 (2X), 6" DN160 (2X) , 8" DN200 (2X))

| | |
|---------------------------------------|---|
| Name NA(EU) | -8" Base Neutral Channel H7.87" (Plastic channel Base DN200 H200) -8" Base Neutral Channel H8.86" with high board (Plastic channel Base DN200 H225 with high board) |
| Width, inch (mm) | 10-1/8" (256) |
| Heights, inch (mm) | 7-7/8" (200) / 8-7/8" (225) |
| Installation length, inch (mm) | 39-3/8" (1000) |
| Total length, inch (mm) | 40-1/4" (1021) |
| Weight, lb (kg) | 7.74 (3.51) / 8.18 (3.71) |
| Article | 85200/85201 |

Note: For a detailed description of the channel design and functionality, please refer to the [slide 4-6](#) [Link](#)

H8.86" (225) high board

Features of the side connection of cascading channels

The function of side cascade connection with the mother (head) of the lower channel at 90 degrees.

Side cascading (centering) function with the folder (end) of the lower channel at 90 degrees using end caps


Trimming the flanges for connecting the lower channel with the mother (head)



Additionally, it is necessary to use a cutting tool to cut the flanges according to the markers for fitting the protruding flange of the lower channel poppy

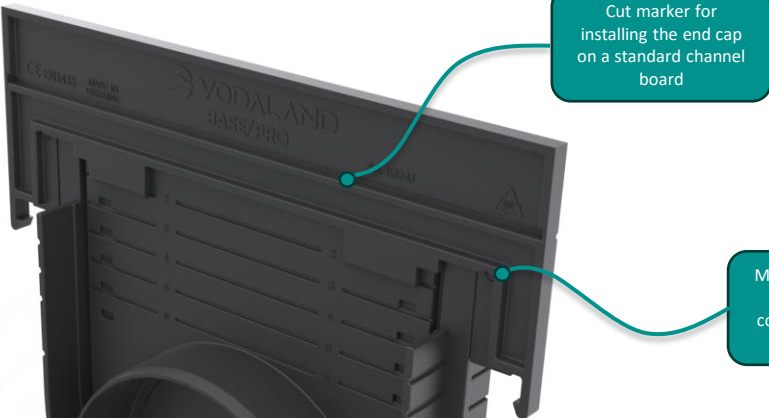
Combined end cap for channels H7.87" (200), H8.86" (225)

| | |
|------------------------------|--|
| Name NA(EU) | 8" End cap for channel Base H7.87" with pipe outlet 4.33" (Plastic end cap for plastic channel Base DN200 H200 with pipe outlet 110) |
| Width, inch (mm) | 10-1/8" (256) |
| Heights, inch (mm) | 8-1/8" (206) |
| Length, inch (mm) | 2" (51) |
| Outlet under the pipe | 4-3/8" (110) |
| Weight, lb (kg) | 0.49 (0,222) |
| Article | 635-2 |

Notes: The detailed description of the plug design and its functionality is unified and demonstrated on the [slide 16-18](#). **Link** 



Example of design explanation based on a 6" (150) end cap



End cap outlet

Cutout marker for the outlet opening

Cutouts for fitting a PVC pipe flange

Protruding flange for closing or connecting channels with father (ends), both for straight and side connection



Upper part of the end cap

The upper part is installed vertically on the lower part until the corresponding click of the teeth, which should be fixed in the grooves.

Bottom part of the end cap

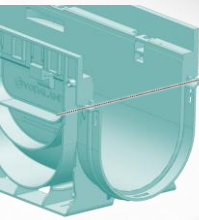
Note: The description of the design of the end caps is universal and also applies to the 8" DN200 H8.78" 200, H11.81" 300.



Features of the functionality of combined end caps in the direction of channel docking

Note: The description of the functionality of the end caps is universal and also applies to the [8" DN 200 H7.87" 200, H11.81.300.](#) [Link](#)

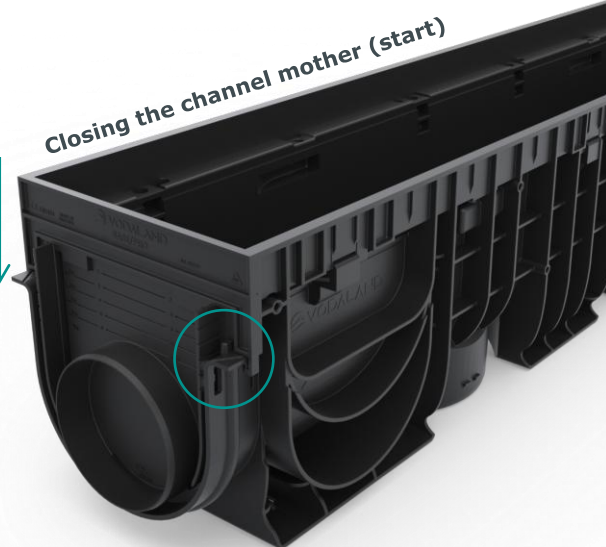
The dual flange function allows you to connect (center) channels to divert flows from the father (end) of the channels. That is, start a line in two directions with the father (end) of the channels.



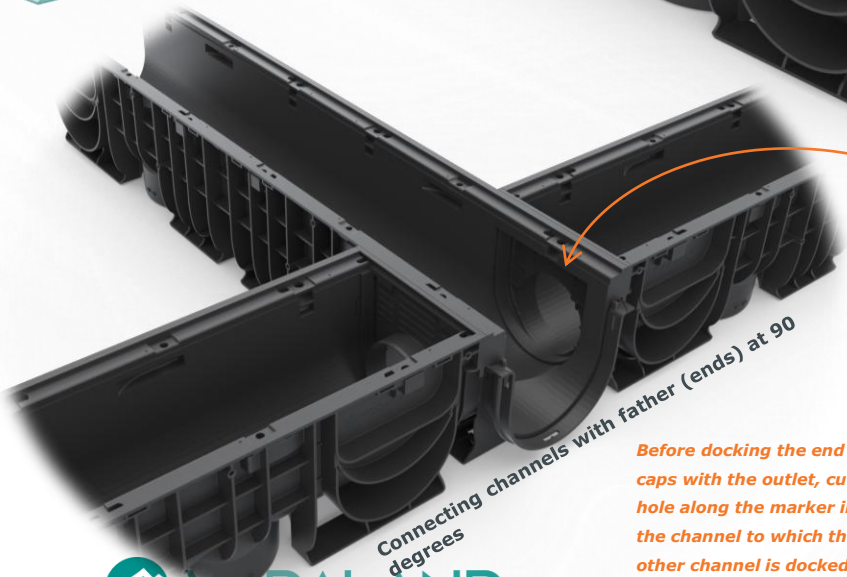
If such a connection is necessary, you need to cut off the flange of the mother (the start of the channels)

Connect the stubs to the channel mother – father (start-end) in the same way as the stubs for H4" (100) channels.

Closing the channel mother (start)

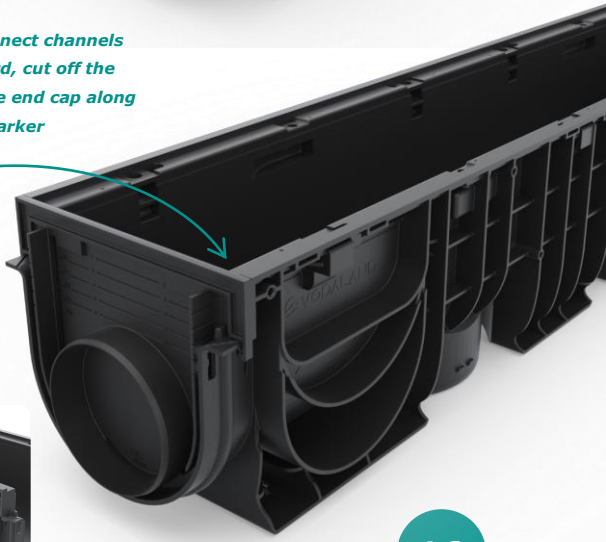
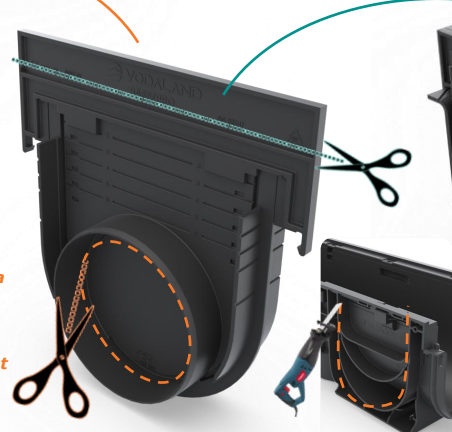


To close or connect channels standard board, cut off the upper part of the end cap along the marker



Connecting channels with father (ends) at 90 degrees

Before docking the end caps with the outlet, cut a hole along the marker in the channel to which the other channel is docked at 90 degrees and the hole in the end cap.



Features of the functionality of combined end caps in the direction of water drainage

Note: The description of the [Link](#) functionality of the end caps is universal and also applies to the [8" DN 200 H7.87" 200, H11.81 300.](#)



Step 2. Before joining the combined end cap with the outlet to the channel, it is necessary to cut a hole according to the marker for the passage of water from the outlet to the outer pipe.

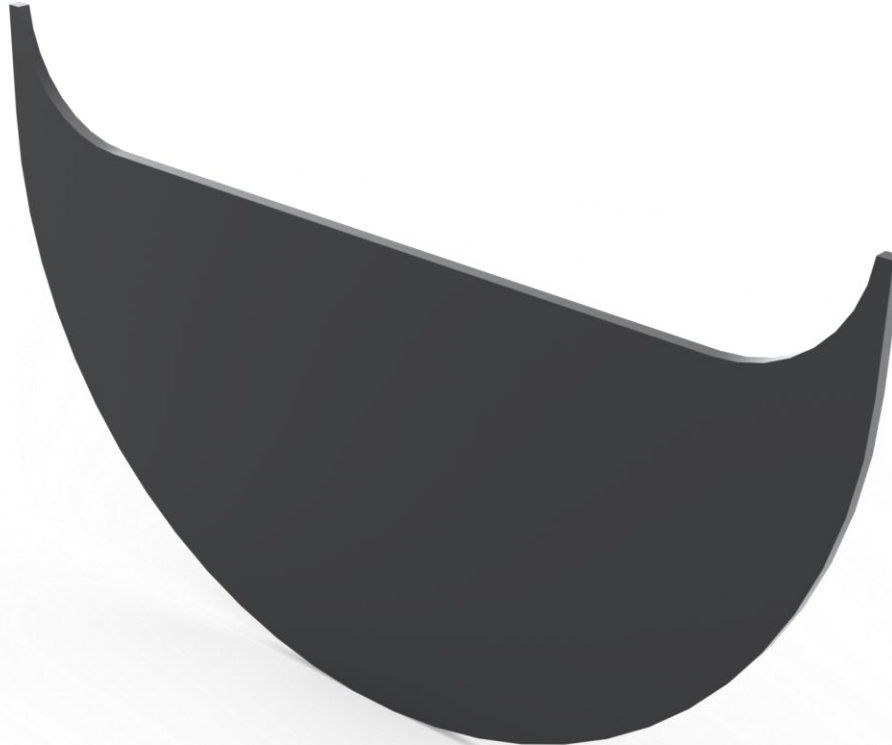


Step 1. Before joining the combined end caps with the outlet, cut a hole along the marker in the channel to which you need to connect the side outlet



Cascade adapter between channels H4''(100) – H7.87''(200)

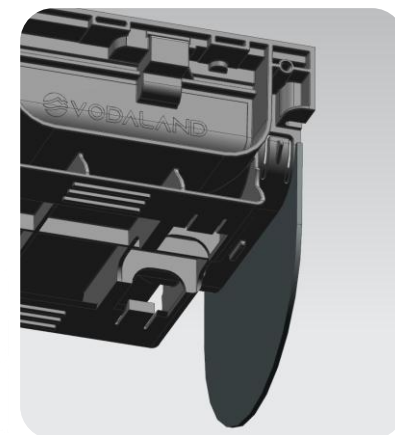
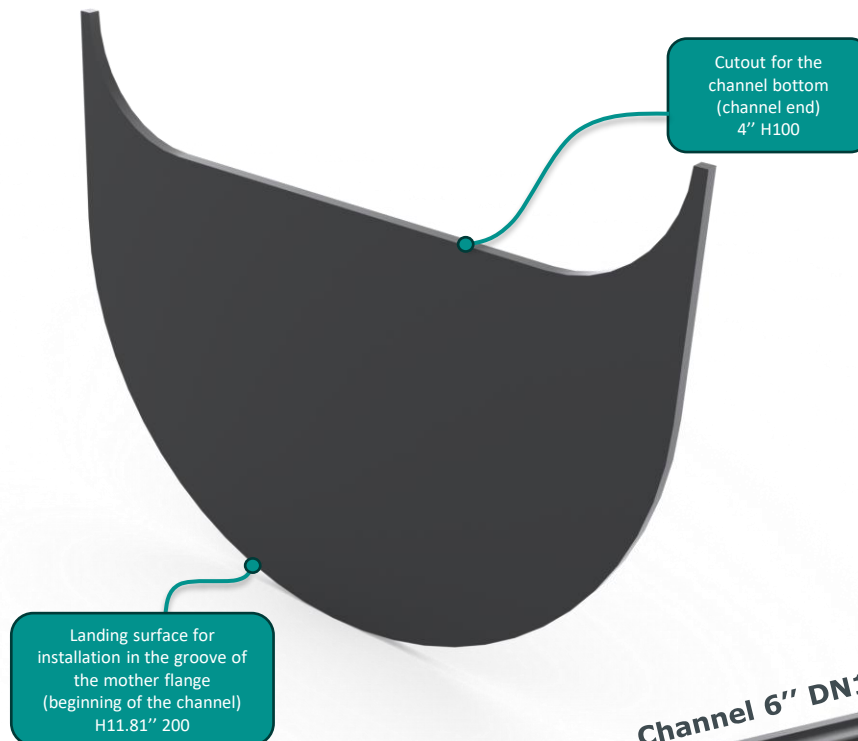
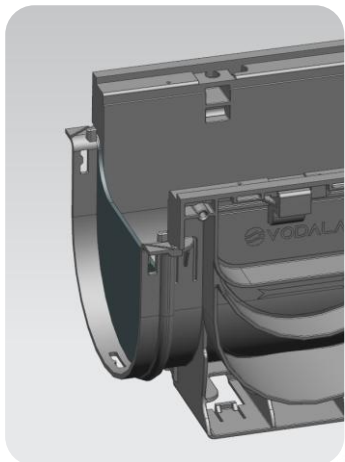
Notes: The detailed description of the cascade adapter design and its functionality is unified and demonstrated on the [slide 19](#).



| | |
|-----------------------------------|---|
| Name NA(EU) | <i>8" End cap-adapter for cascade of plastic channel Base H3.94"-H7.87" (Plastic end cap-adapter for cascade of plastic channel Base DN200 H100-H200)</i> |
| Width, inch (mm) | 8-3/8" (212) |
| Heights, inch (mm) | 5-1/8" (129) |
| Thickness, inch (mm) | 1/8" (3) |
| Channel cascade, inch (mm) | 3.94''(100)-7.87''(200) 4.92''(125)-8.86''(225) |
| Weight, lb (g) | 0.1 (47) |
| Article | 6357.1 |

Example of functionality: cascade adapter based on 6" (DN150)

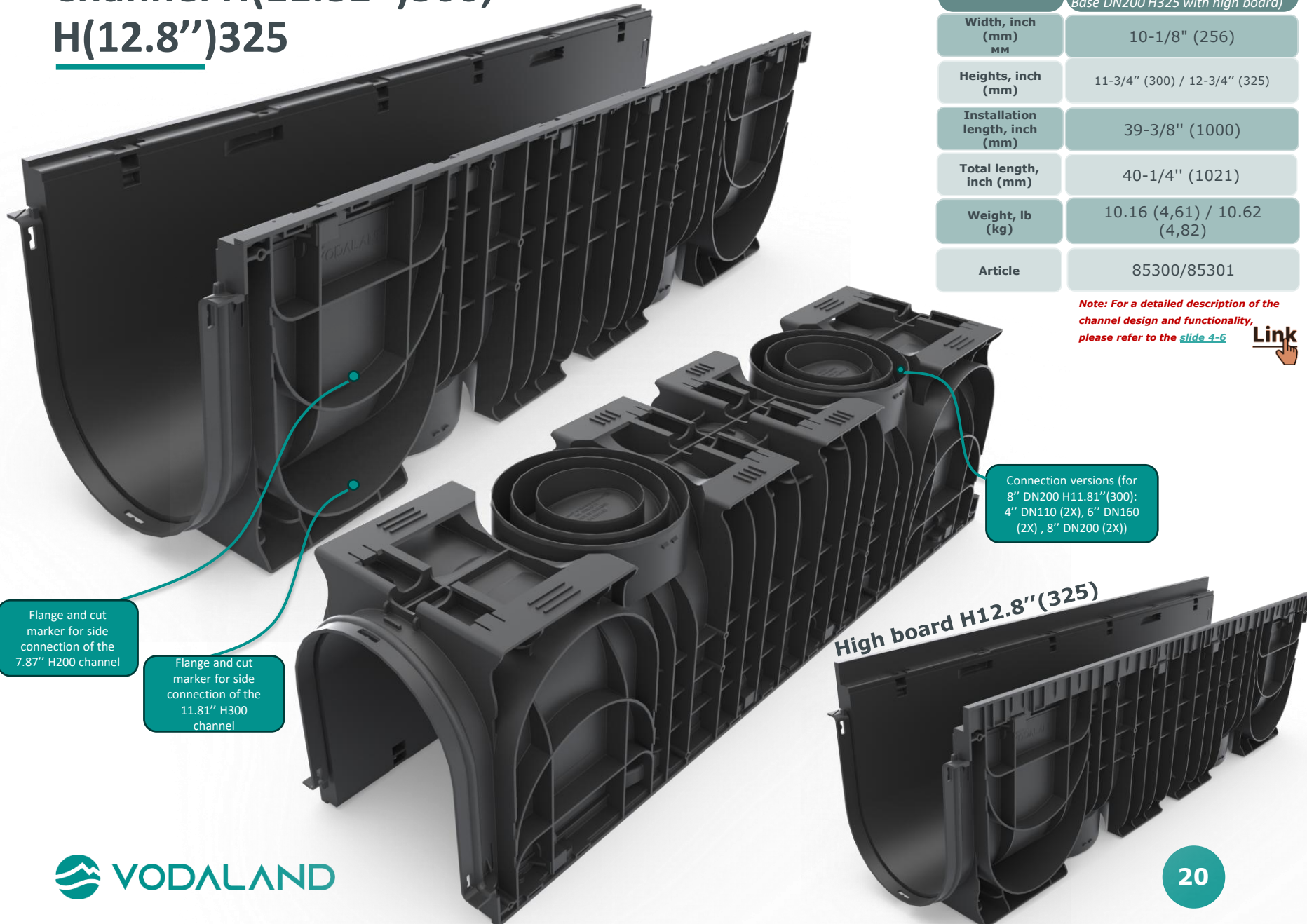
Note: The description of the design of the adapters is universal and also [Link](#) applies to adapters 8" DN200 H4" (100- H7.87" 200, H7.87" 200- H11.81 300



Channel 6" DN150 H4" (100) Channel 6" DN150 H7.87" (200)

The channel cascade allows you to form more complex drainage lines, thereby ensuring effective drainage in areas where there is a natural elevation difference, or there is a need to create a discharge point to another drainage line.

Channel H(11.81")300, H(12.8")325



| | |
|---------------------------------------|--|
| Name NA(EU) | -8" Base Neutral Channel H11.81" (Plastic channel Base DN200 H300) -8" Base Neutral Channel H12.8" with high board (Plastic channel Base DN200 H325 with high board) |
| Width, inch (mm) MM | 10-1/8" (256) |
| Heights, inch (mm) | 11-3/4" (300) / 12-3/4" (325) |
| Installation length, inch (mm) | 39-3/8" (1000) |
| Total length, inch (mm) | 40-1/4" (1021) |
| Weight, lb (kg) | 10.16 (4,61) / 10.62 (4,82) |
| Article | 85300/85301 |

Note: For a detailed description of the channel design and functionality, please refer to the [slide 4-6](#) [Link](#)

Flange and cut marker for side connection of the 7.87" H200 channel

Flange and cut marker for side connection of the 11.81" H300 channel

Connection versions (for 8" DN200 H11.81"(300): 4" DN110 (2X), 6" DN160 (2X) , 8" DN200 (2X))



Combined end cap for channels H11.81" (300), H12.8" (325)



Enf cap outlet (8" DN200 for 8" DN200 H11.81 (300))

Bottom part 635-T4

Upper part 635-U

| | |
|------------------------------|---|
| Name NA(EU) | 8" End cap for channel Base H11.81" with pipe outlet 7.87" (Plastic end cap for plastic channel Base DN200 H300 with pipe outlet 200) |
| Width, inch (mm) | 10-1/8" (256) |
| Heights, inch (mm) | 12" (306) |
| Length, inch (mm) | 2-3/8" (61) |
| Outlet under the pipe | 7-7/8" (200) |
| Weight, lb (kg) | 0.75 (0,341) |
| Article | 635-4 |

Notes: The detailed description of the plug design and its functionality is unified and demonstrated on the [slide 15-17](#).

Link

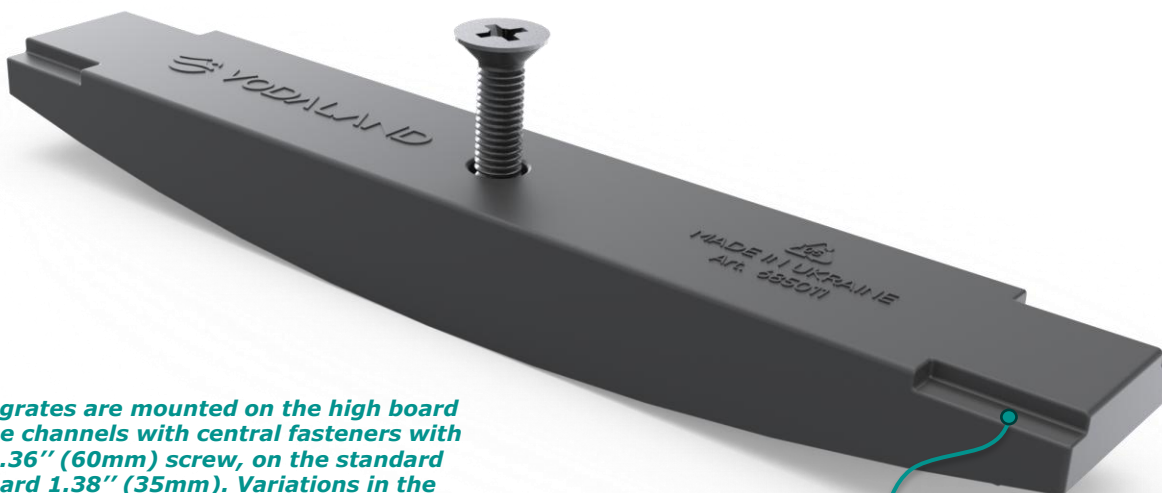
Cascade adapter between channels H7.87''(200)-H11.81''(300)

Notes: The detailed description of the cascade adapter design and its functionality is unified and demonstrated on the [slide 19](#). [Link](#)



| | |
|-----------------------------------|---|
| Name NA(EU) | 8" End cap-adapter for cascade of plastic channel Base H7.87"-H11.81" (Plastic end cap-adapter for cascade of plastic channel Base DN200 H200-H300) |
| Width, inch (mm) | 8-3/8" (212) |
| Heights, inch (mm) | 8-1/8" (205) |
| Thickness, inch (mm) | 1/8" (3) |
| Channel cascade, inch (mm) | 7.78"(200)-11.81"(300) 8.86"(225)-12.8"(325) |
| Weight, lb (g) | 0.13 (58) |
| Article | 6357.2 |

Plastic central fastener of the grates



The grates are mounted on the high board of the channels with central fasteners with a 2.36" (60mm) screw, on the standard board 1.38" (35mm). Variations in the articles of fasteners and grates are shown in the configuration matrix on [slide 3-4](#)

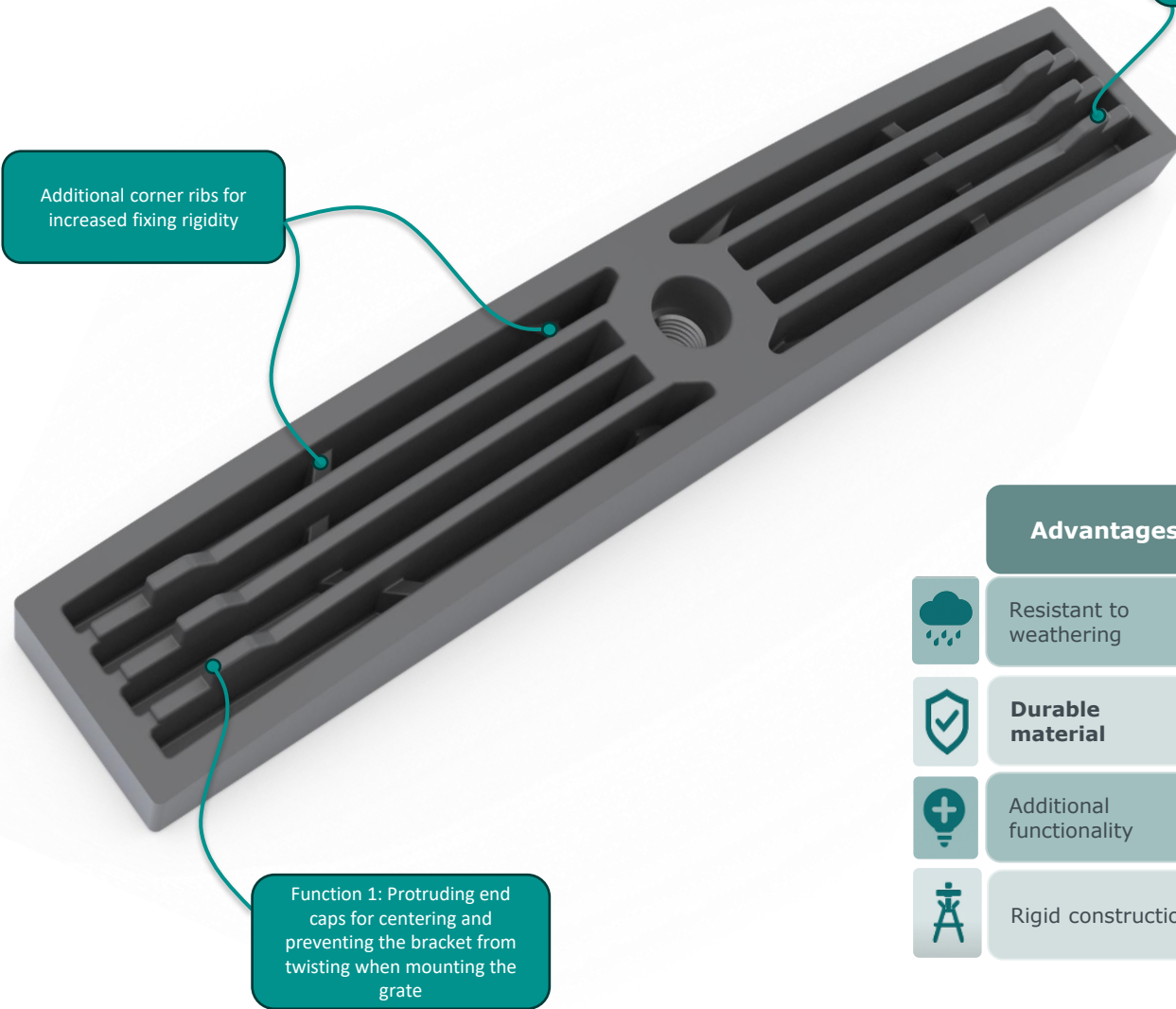
Ledges for seating of the locking tooth in the groove of the central fasteners of channels 8" DN200

| | |
|---------------------------|--|
| Name NA(EU) | -8" Plastic fastener for plastic channel Base with screw 1.38" reinforced (Plastic fastener for plastic channel Base DN200 with screw 35mm reinforced) -8" Plastic fastener for plastic Base channel with stainless screw 1.38" reinforced (Plastic fastener for plastic channel Base DN200 with stainless steel screw 35mm reinforced) |
| Width, inch (mm) | 1-3/8" (35) |
| Heights, inch (mm) | 1-3/8" (23,5) |
| Length, inch (mm) | 8-3/4" (222) |
| Screw, inch (mm) | M3/8"x1.38" (M8x35) - galvanizations M3/8"x1.38" (M8x35) - stainless |
| Weight, lb (g) | 0.31 (0.139) / 0.31 (0.141) |
| Article | 685011-35/6850119-35 |

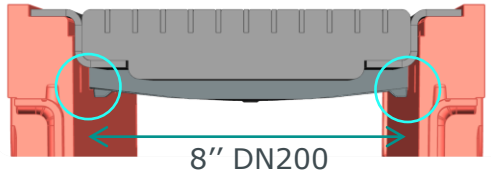
Notes: The detailed description of the center fasteners design and its functionality is unified and demonstrated on the [slide 24](#). [Link](#)

| | |
|---------------------------|--|
| Name NA(EU) | -8" Plastic fastener for plastic channel Base with screw 2.36" reinforced (Plastic fastener for plastic channel Base DN200 with screw 60mm reinforced) -8" Plastic fastener for plastic Base channel with stainless screw 2.36" reinforced (Plastic fastener for plastic channel Base DN200 with stainless steel screw 60mm reinforced) |
| Width, inch (mm) | 1-3/8" (35) |
| Heights, inch (mm) | 1-3/8" (23,5) |
| Length, inch (mm) | 8-3/4" (222) |
| Screw, inch (mm) | M3/8"x2.36" (M8x60) - galvanizations M3/8"x2.36" (M8x60) - stainless |
| Weight, lb (kg) | 0.35 (0.157) / 0.35 (0.159) |
| Article | 685011-60 /6850119-60 |

Advantages of plastic fasteners



Function 2. Stability of the channel cross-section, preventing the sides of the channel from collapsing during installation.



Note: The functionality of the mounts is universal and also applies to the fasteners 8" DN200. [Link](#)

| | Advantages | Details |
|--|--------------------------|--|
| | Resistant to weathering | Stable material characteristics in wide temperature ranges. Resistant to ultraviolet radiation, salt solutions |
| | Durable material | Made of durable plastic that is resistant to fracture and bending |
| | Additional functionality | Prevents deformation of the channel blockage during installation. Stability of the channel cross-section |
| | Rigid construction | Ribbed construction, nut locked in the middle to prevent falling out |

Example of fixing grates to channels

Note: The functionality of the grate fasteners is universal and also applies to fixing the grates [8" DN 200](#).

[Link](#)

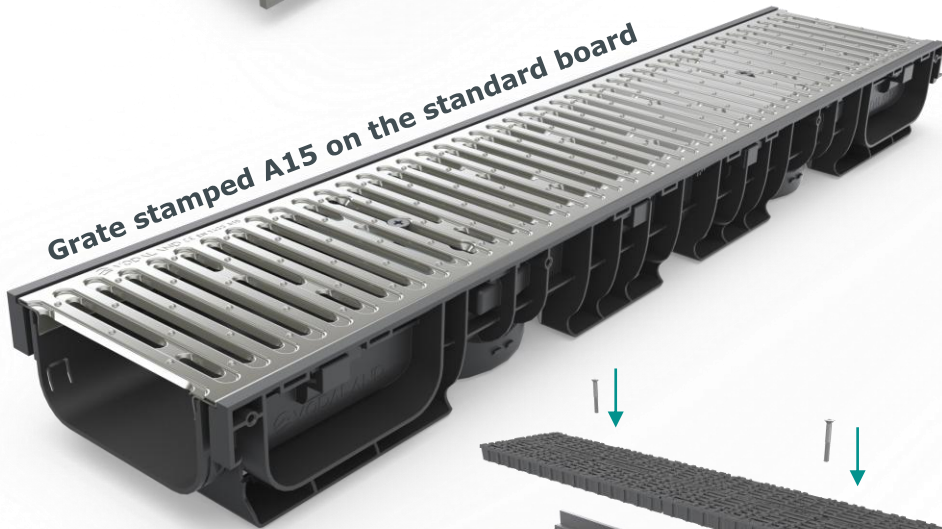
The grates are attached to the standard side of the channels by central fasteners with a 1.38" (35 mm) screw.



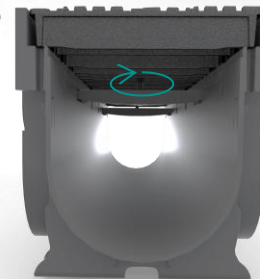
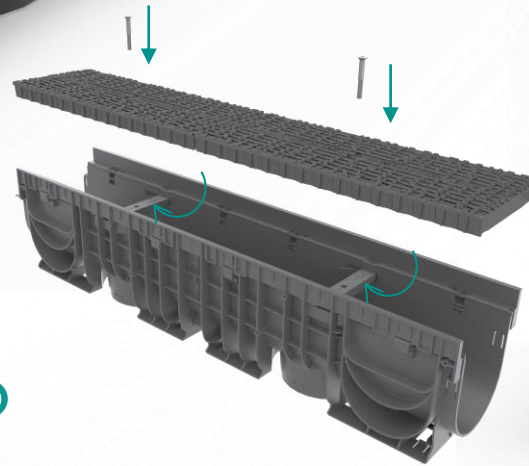
The grates are attached to the high side of the channels by central fasteners with a 2.36" (60 mm) screw.



Grate stamped A15 on the standard board



Cast iron grates C250 on the high board

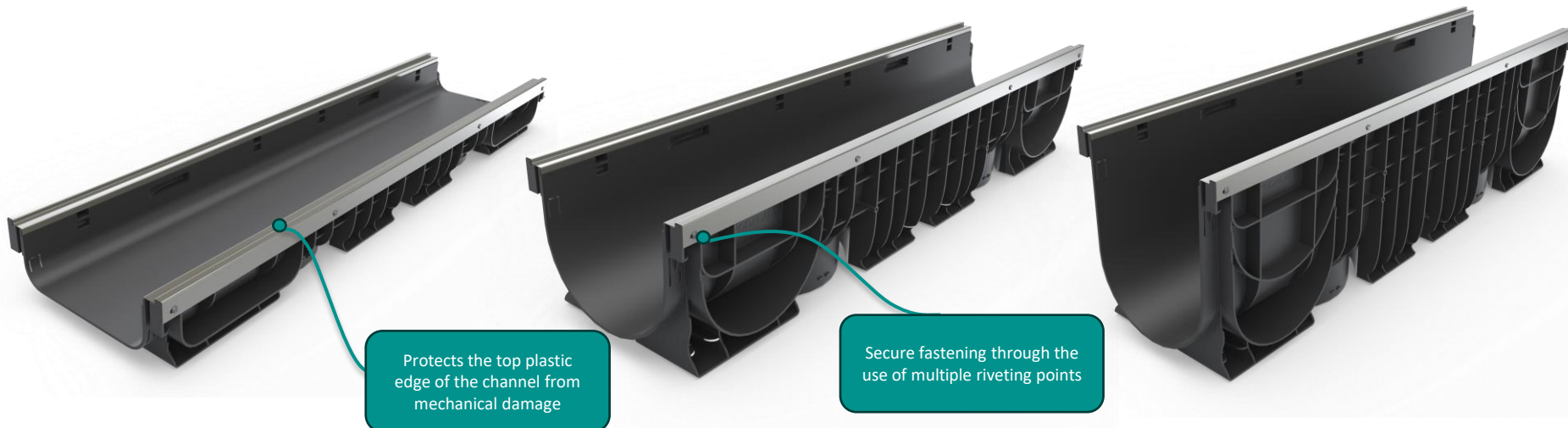
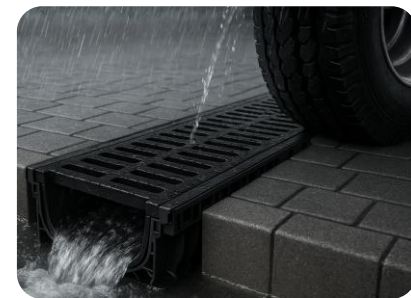


Step 1. Install the central fastener into the seats in the channel by scrolling clockwise.

Step 2. Installing the required grate on the bottom board of the channel.

Step 3. Tighten the two screws with a tool of the appropriate length until the grate is pressed against the channel as far as possible.

Reinforced series C250 H3.94''(100), H7.87''(200), H11.81''(300)

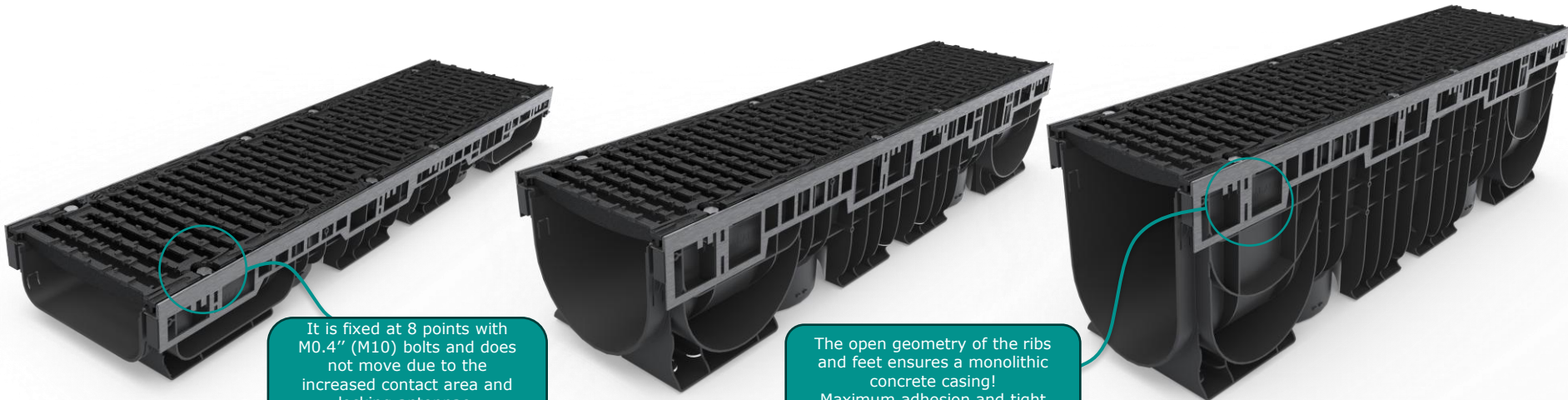


| | |
|---------------------------|---|
| Name NA(EU) | -8" Base Neutral Channel H4" reinforced (Plastic channel Base DN200 H100 reinforced) - 8" Base Neutral Channel H4" reinforced stainless steel nozzle (Plastic channel Base DN200 H100 reinforced stainless steel nozzle) |
| Width, inch (mm) | 10-1/8" (258) |
| Heights, inch (mm) | 4" (101) |
| Length, inch (mm) | 39-3/8" (1000) |
| Rivets, inch (mm) | 1/8"x5/8" (4x16) |
| Weight, lb (kg) | 5.31 (2.41) / 5.43 (2.46) |
| Article | 85107 / 851079 |

| | |
|---------------------------|---|
| Name NA(EU) | -8" Base Neutral Channel H7.87" reinforced (Plastic channel Base DN200 H200 reinforced) - 8" Base Neutral Channel H7.87" reinforced stainless steel nozzle (Plastic channel Base DN200 H200 reinforced stainless steel nozzle) |
| Width, inch (mm) | 10-1/8" (258) |
| Heights, inch (mm) | 7-7/8" (201) |
| Length, inch (mm) | 39-3/8" (1000) |
| Rivets, inch (mm) | 1/8"x5/8" (4x16) |
| Weight, lb (kg) | 8.62 (3.91) / 8.64 (3.92) |
| Article | 85207 / 852079 |

| | |
|---------------------------|---|
| Name NA(EU) | -8" Base Neutral Channel H11.81" reinforced (Plastic channel Base DN200 H300 reinforced) - 8" Base Neutral Channel H11.81" reinforced stainless steel nozzle (Plastic channel Base DN200 H300 reinforced stainless steel nozzle) |
| Width, inch (mm) | 10-1/8" (258) |
| Heights, inch (mm) | 11-7/8" (301) |
| Length, inch (mm) | 39-3/8" (1000) |
| Rivets, inch (mm) | 1/8"x5/8" (4x16) |
| Weight, lb (kg) | 11.05 (5,01) / 11.07 (5,02) |
| Article | 85307 / 853079 |

Series PRO D400 H4.53''(115), H8.47''(215), H12.4''(315)



It is fixed at 8 points with M0.4'' (M10) bolts and does not move due to the increased contact area and locking antennae. After concreting, a steel-reinforced "concrete heel" is formed

The open geometry of the ribs and feet ensures a monolithic concrete casing! Maximum adhesion and tight fixation of each element!

| | |
|--|--|
| Name NA(EU) | 8'' PRO Neutral Channel H4.53'' with cast iron slotted grate D400 (Plastic channel PRO DN200 H115 with cast iron slotted grate D400) |
| Width, inch (mm) | 10-1/4'' (260) |
| Heights, inch (mm) | 4-1/2'' (115) |
| Installation length, inch (mm), | 39-3/8'' (1000) |
| The length is total, inch (mm) | 40-1/4'' (1021) |
| Weight, lb (kg) | 44.68 (20,27) |
| Article | 851013043 |

| | |
|--|--|
| Name NA(EU) | 8'' PRO Neutral Channel H8.47'' with cast iron slotted grate D400 (Plastic channel PRO DN200 H215 with cast iron slotted grate D400) |
| Width, inch (mm) | 10-1/4'' (260) |
| Heights, inch (mm) | 8-1/2'' (215) |
| Installation length, inch (mm), | 39-3/8'' (1000) |
| The length is total, inch (mm) | 40-1/4'' (1021) |
| Weight, lb (kg) | 48.02 (21,78) |
| Article | 852013043 |

| | |
|--|--|
| Name NA(EU) | 8'' PRO Neutral Channel H12.4'' with cast iron slotted grate D400 (Plastic channel PRO DN200 H315 with cast iron slotted grate D400) |
| Width, inch (mm) | 10-1/4'' (260) |
| Heights, inch (mm) | 12-3/8'' (315) |
| Installation length, inch (mm), | 39-3/8'' (1000) |
| The length is total, inch (mm) | 40-1/4'' (1021) |
| Weight, lb (kg) | 50.45 (22,89) |
| Article | 853013043 |

Areas of application of the Base and enhanced serie

Load classes: A15, B125, C250

8" DN200 - the highest capacity in the polymer channel class
Thanks to its increased hydraulic cross-section, 8" DN200 provides up to 3 times the flow capacity of 4" DN100, which reduces the risk of flooding even during heavy rainfall or drainage from large areas.



◆ **4" H100** – for limited mounting depths

- Private plots, lawns, garden paths (A15)
- Terraces, public areas, pedestrian alleys (B125)
- Small parking lots, in-block driveways, sports grounds (C250)
- Application on large areas with a minimum slope, where 4" DN100-6" DN 150 will not cope with the catchment area



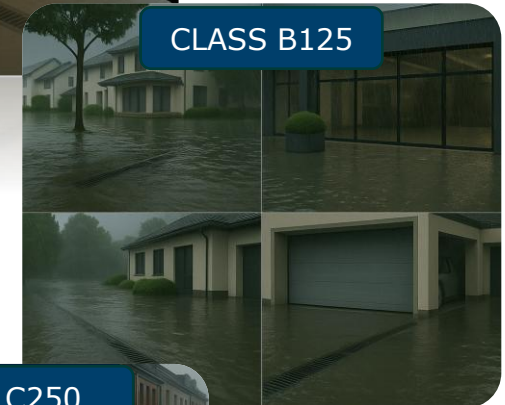
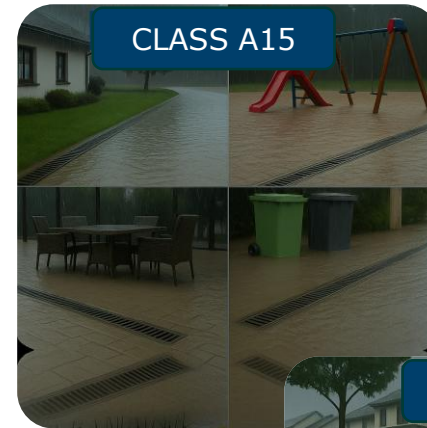
◆ **7.87" H200** – universal solution for intensive rain load **Shopping malls, business centers, municipal squares (B125–C250)**

- Parking lots, adjacent areas with car loading
- Technical aisles, pedestrian areas with asphalt + tile pavement
- The optimal solution for quick drainage of water from roofs, parking lots, paved surfaces



◆ **11.81" H300** – for areas with a risk of flooding **Parking lots with a slope, shopping center parking lots, ramps, industrial areas (B125-C250)**

- Areas with a deep concrete cage
- Industrial areas with periodic traffic and water accumulation
- Use in cases with a large drainage area, or in areas with no linear slope



Areas of application of the PRO series

Load class: D400

Advantages:

- Reinforced fastening: **8 fixing points with 0.4" (M10) bolts**
- Robust design + thickened stiffeners
- The perfect combination: **maximum throughput 8" (DN200) + high load-bearing capacity**

[Link](#)

◆ **4" H100 – when the mounting depth is limited but the load is high**

- Gas stations, ramps, commercial truck stops, service stations
- Short-term passage zones for freight transport
- Maximum efficiency while maintaining a shallow installation depth
- Multipoint anchoring + reinforced concrete = landslide protection

◆ **7.87" H200 – the universal choice for commercial vehicles**

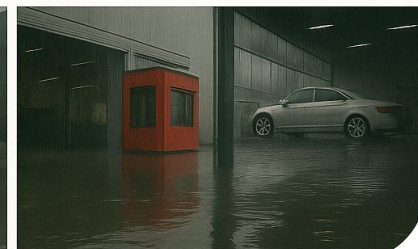
- Industrial zones, warehouses, logistics sites
- Service entrances, ramps of loading and unloading complexes
- Second-level highways
- Reducing the hydraulic risk in places of peak storm load

[Link](#)

◆ **11.81" H300 – highest stability and drainage efficiency**

- Transport and logistics hubs, freight yards, ports
- City streets with a large number of exits
- Ideal for concreting with heels
- Guaranteed effective drainage even in case of heavy rainfall

[Link](#)



Universal sand trap 8" DN200



Sand trap H21.65''(550), H22.64''(575)

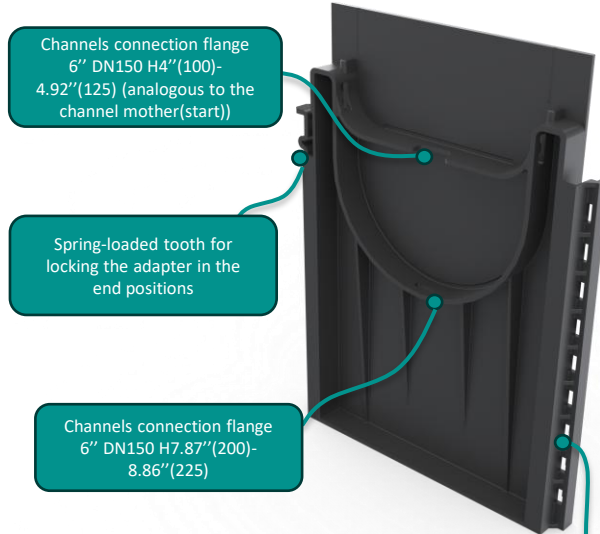


| | |
|---------------------------------------|--|
| Name NA(EU) | -8'' Base sand trap H21.65'' (Plastic sand trap Base DN200 H550) -8'' Base sand trap H22.64'' (Plastic sand trap Base DN200 H575) |
| Width, inch (mm) | 10-1/8'' (256) |
| Heights, inch (mm) | 21-5/8''(550)/22-5/8''(575) |
| Installation length, inch (mm) | 19-5/8'' (500) |
| Total length, inch (mm) | 21-3/8'' (544) |
| Weight, lb (kg) | 10.91 (4,95) / 11.16 (5,06) |
| Article | 8580/8581 |



Sand trap components

| | |
|---------------------------|--|
| Name NA(EU) | 8" Plastic basket H6.89" for sand trap (Plastic basket H175 for sand trap DN200) |
| Width, inch (mm) | 7-1/2" (190) |
| Heights, inch (mm) | 6-7/8" (175) |
| Length, Inch (mm) | 17-1/8" (436) |
| Weight, lb (kg) | 1.26 (0,57) |
| Article | 6859 |



| | |
|--------------------------------------|--|
| Name NA(EU) | 8" End cap-adapter for plastic sand trap Base for connection to 8" channels (Plastic floating end cap-adapter for plastic sand trap Base DN200 for connection to DN150 channels) |
| Width, inch (mm) | 9-3/8" (239) |
| Heights, inch (mm) | 12-3/4" (323) |
| Length, inch (mm) | 1" (25) |
| Connection heights, inch (mm) | 8" DN150: H4"(100)-8.86"(225) |
| Weight, lb (kg) | 0.85 (0,386) |
| Article | 68518 |

| | |
|--------------------------------------|--|
| Name NA(EU) | 8" End cap-adapter floating for plastic sand trap Base (Plastic end cap-adapter floating for plastic sand trap Base DN200) |
| Width, inch (mm) | 9-3/8" (239) |
| Heights, inch (mm) | 12-3/4" (323) |
| Length, inch (mm) | 1" (25) |
| Connection heights, inch (mm) | DN200: H4"(100)-H12.8"(325) |
| Weight, lb (kg) | 0.85 (0,385) |
| Article | 685182 |

Sand trap set for connecting channels 8" DN200

The 8580(1)182.9 comes with a basket mounted in the sand trap. It performs the function of collecting debris to prevent clogging of utility systems.



The 8580(1)182 does not come with a basket



Name NA(EU)

-8" Base sand trap H22.64" high board with adapters (2 pcs.) (Plastic sand trap Base DN200 H575 high board(2 pcs.))

-8" Base sand trap H22.64" high board with basket and (2 pcs.) (Plastic sand trap Base DN200 H575 high board with basket and adapters (2 pcs.))

Width, inch (mm)

10-1/8" (256)

Heights, inch (mm)

22-5/8"(575)

Installation length, inch (mm)

19-5/8"(500)

Total length, inch (mm)

21-5/8 (550)

Weight, lb (kg)

12.85 (5,83) / 14.11 (6,4)

Article

858118/ 858118.9

Name NA(EU)

-8" Base sand trap H21.65" with adapters (2 pcs.) (Plastic sand trap Base DN200 H550 with (2 pcs.))

-8" Base sand trap H21.65" with basket and adapters (2 pcs.) (Plastic sand trap Base DN200 H550 with basket and adapters (2 pcs.))

Width, inch (mm)

10-1/8" (256)

Heights, inch (mm)

21-5/8"(550)

Installation length, inch (mm)

19-5/8"(500)

Total length, inch (mm)

21-5/8 (550)

Weight, lb (kg)

12.61 (5,72) / 13.87 (6,29)

Article

858018/ 858018.9

Reinforced sand traps for connecting channels 8" DN200



Note: The functionality of the kit is unified to that described on the [slide 26](#).



Name NA(EU)

-8" Base sand trap H21.65" reinforced steel nozzle with adapters (2 pcs.) (Plastic sand trap Base DN200 H550 reinforced steel nozzle with adapters (2 pcs.))

-8" Base sand trap H21.65" reinforced steel nozzle with basket and adapters (2 pcs.) (Plastic sand trap Base DN200 H550 reinforced steel nozzle with basket and adapters (2 pcs.))

Width, inch (mm)

10-1/8" (256)

Heights, inch (mm)

21-5/8"(551)

Installation length, inch (mm)

19-5/8"(500)

Total length, inch (mm)

21-5/8 (550)

Weight, lb (kg)

12.83 (5,82) / 14.08 (6,39)

Article

858718/ 858718.9

Name NA(EU)

-8" Base sand trap H21.65" reinforced stainless steel nozzle with adapters (2 pcs.) (Plastic sand trap Base DN200 H550 reinforced stainless steel nozzle with adapters (2 pcs.))

-8" Base sand trap H21.65" reinforced stainless steel nozzle with basket and adapters (2 pcs.) (Plastic sand trap Base DN200 H550 reinforced stainless steel nozzle with basket and adapters (2 pcs.))

Width, inch (mm)

10-1/8" (256)

Heights, inch (mm)

21-5/8"(551)

Installation length, inch (mm)

19-5/8"(500)

Total length, inch (mm)

21-5/8 (550)

Weight, lb (kg)

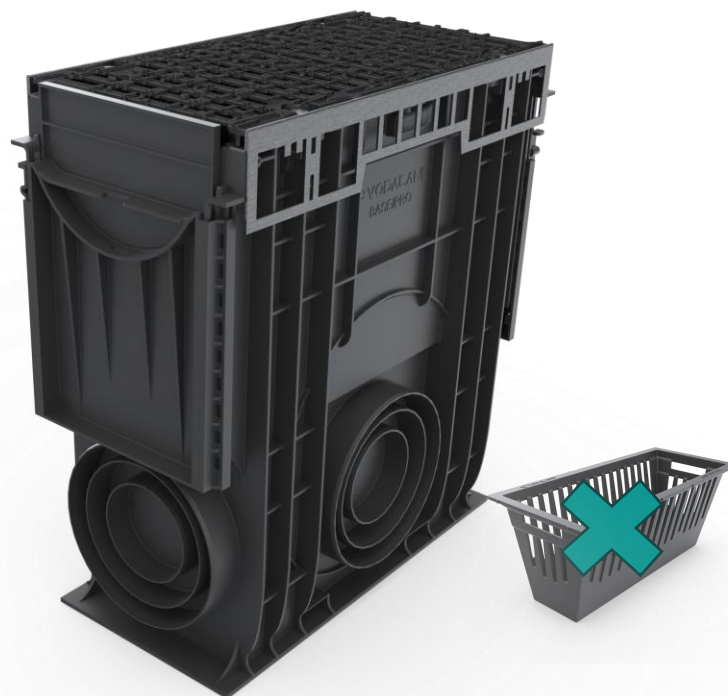
12.85 (5,83) / 14.11 (6,4)

Article

85879182/ 85879182.9

PRO D400 sand traps for connection of PRO 8'' DN200 channels

[Link](#) *Note: The functionality of the kit is unified to that described on the [slide 27](#).*



| Name NA(EU) | 8" Base sand trap H22.24" with adapters (2 pcs.), basket and cast iron slotted grate D400 (Plastic sand trap PRO DN200 H565 with adapters (2 pcs.), basket and cast iron slotted grate D400) |
|--------------------------------|--|
| Width, inch (mm) | 10-1/4" (260) |
| Heights, inch (mm) | 22-1/4" (565) |
| Installation length, inch (mm) | 19-5/8" (500) |
| Total length, inch (mm) | 21-5/8" (550) |
| Weight, lb (kg) | 25.17 (11,42) |
| Article | 085813043 |

| Name NA(EU) | 8" Base sand trap H22.24" with adapters (2 pcs.) and cast iron slotted grate D400 without basket (Plastic sand trap PRO DN200 H565 with adapters (2 pcs.) and cast iron slotted grate D400 without basket) |
|--------------------------------|--|
| Width, inch (mm) | 10-1/4" (260) |
| Heights, inch (mm) | 22-1/4" (565) |
| Installation length, inch (mm) | 19-5/8" (500) |
| Total length, inch (mm) | 21-5/8" (550) |
| Weight, lb (kg) | 23.92 (10,85) |
| Article | 085813043.7 |

Variations of connecting channels from one drainage line

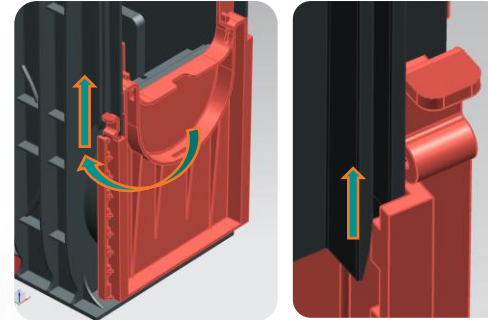
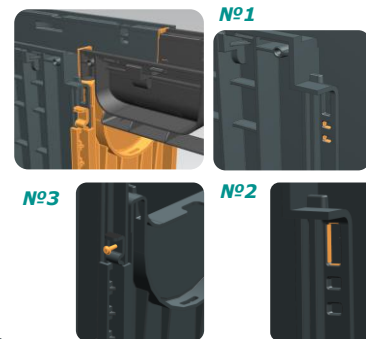
Note: The description of the functionality is universal and refers to the connection channels 8" DN200. [Link](#)

Step 1 Use the sand trap under the required side of the channel with or without a basket (included). Seal the places where the adapter fits with sealant.

Step 2 Use an adapter for the cross-section of the channels 6" DN150 or 8" DN200 (according to the kit). Cut a seat in the adapter for the required channel gutter using a marker and treat the flange with sealant.

Step 3. Prepare the adapter is installed on the sand trap so that the side protrusions of the adapter fit into the sand trap guides.

Step 4. Attach the channel with the father (end) to the sand trap and fix the bottom against vertical displacement with an adapter. When connecting channels H4"; 4.92" (100(125))- H7.87"; 8.86" (200(225)) the tooth of the adapter must fit into the grooves №1, when using an adapter as an end cap on the high board, it must fit into the grooves №2. When connecting the H8.86"(225)+ channel, the adapter is fixed with screw No. 3



Connection of the channel 6" DN150 H4" (100)



Connection of the channel 6" DN150 H4.92" (125)



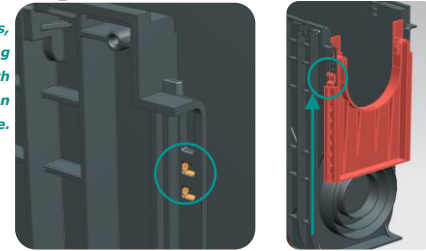
Note: The description of the functionality is universal and refers to the connection channels 8" DN200.

[Link](#)

Variations of connecting channels with two drainage lines

Nº1 The discharge point of the two lines to the center in the sand trap

To connect the 8" H200 channels, the adapter must be guided along the western skids and fixed with the elastic teeth in the position highlighted in the image.

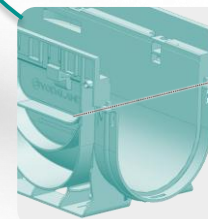


Flow direction #1



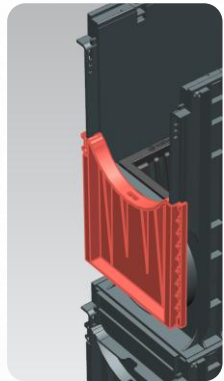
Nº2 Several consecutive discharge points in the sand trap

Flow direction #2

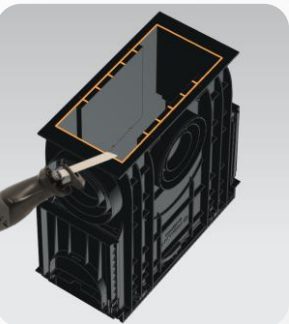


If such a connection is necessary, you need to cut off the flange of the mother (the start of the channel)

Example of using the well function when discharging water from two lines 8" DN200 H11.81"(300)



Before joining the channels, the adapters are cut along the cut marker relative to the channel bottom and fixed to the sand trap with screws.

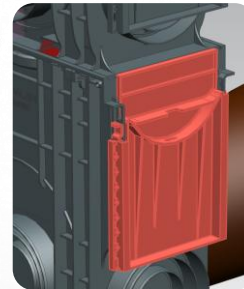


Before installing the upper sand trap on the board of the lower one to form a well, it is necessary to make a hole in the bottom of the upper one along the marker with a cutting tool.

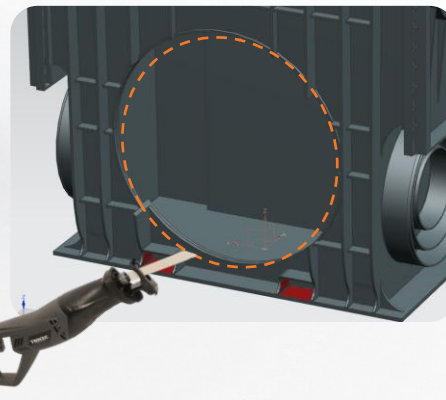


An example of 12" DN315 pipe application for maximum throughput in areas where there is a risk of flooding

Before installing the 12" DN315 pipe, a hole must be made using a cutting tool according to the marker on the side wall of the sand trap. For additional fixation and sealing, it is recommended to use sealant.



The lower sand trap is covered with adapters on both sides.



The waste basket is installed on the seats of the upper sand trap.



Universal components 8''(DN200)



Outlet bottom 6" DN160

Universal fit for channels
6"; 8"; 12"
DN150,200,300



UNIVERSAL CONNECTION BOTTOM

- 6"DN150:
- *H4"(100)
- + *H4.92"(125)
- *H7.87"(200)
- *H8.86"(225)

- 8"DN150:
- *H4"(100)
- + *H4.92"(125)
- *H7.87"(200)
- *H8.86"(225)
- *H11.81"(300)
- *H12.8"(325)

- + 12"DN300:
- *H11.81"(300)

As well as their reinforced series and PRO series



| | |
|------------------------------------|--|
| Name NA(EU) | 6" Bottom outlet nozzle for channel Base (Bottom outlet nozzle DN160 for plastic channel Base) |
| Overall diameter, Inch (mm) | 6-1/2"(166) |
| Heights, inch (mm) | 2-1/2" (63) |
| Diameter of the outlet, | 6-1/4(159) |
| Weight, lb (g) | 0.21 (95) |
| Article | 6855 |

Outlet bottom 8" DN200

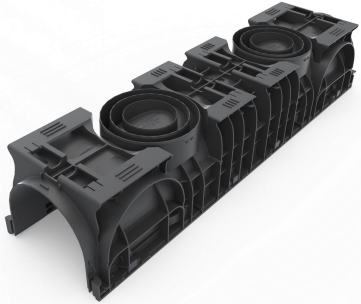
Universal fit for channels
8"; 12" 200,300



UNIVERSAL CONNECTION BOTTOM

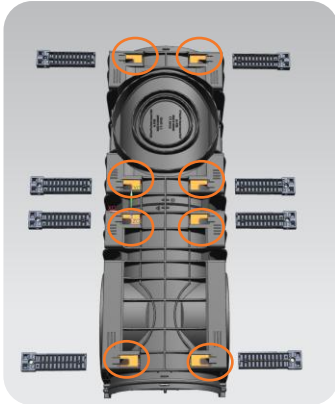
| | |
|------------------------------------|--|
| Name NA(EU) | 8" Bottom outlet nozzle for channel Base (Bottom outlet nozzle DN160 for plastic channel Base) |
| Overall diameter, inch (mm) | 8-1/4"(208) |
| Heights, inch (mm) | 2-7/8" (72) |
| Diameter of the outlet, | 7-7/8(199) |
| Weight, lb (kg) | 0.32 (0,144) |
| Article | 6855 |

- 8"DN150:
- *H4"(100)
- *H4.92"(125)
- *H7.87"(200)
- *H8.86"(225)
- *H11.81"(300)
- *H12.8" (325)

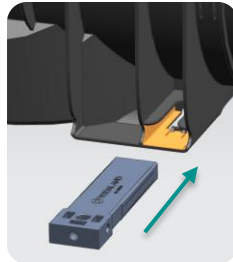


As well as their reinforced series and PRO series

Functionality of the mounting bracket

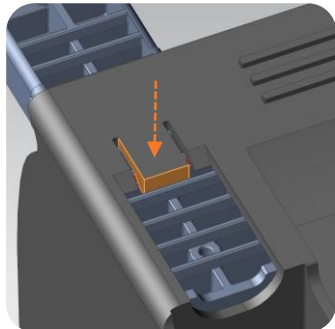
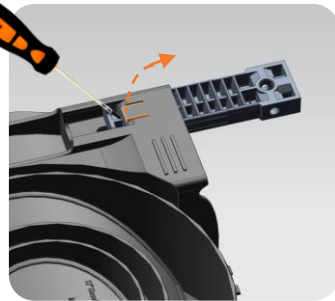


Step 1. The design of the channel provides 8 places for the bracket to fit. That is, four places per side

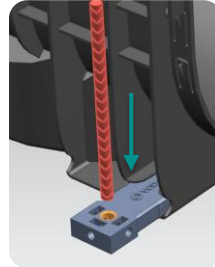


Step 2. The bracket design includes stiffening ribs that serve as stops when adjusting the bracket position.

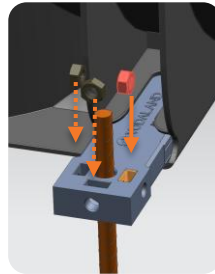
Additionally: when removing the bracket, use a screwdriver to loosen the elastic prong, thereby releasing the bracket.



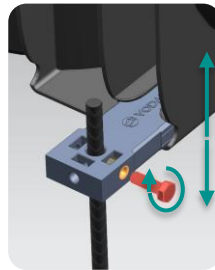
Additionally. The retainer is an elastic tooth of the channel, which bends during bracket placement and allows you to mount the bracket all the way.



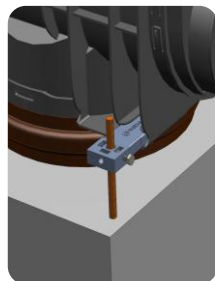
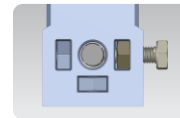
Step 3. Reinforcement with a diameter of up to 1/2" (12) mm is mounted through the central hole of the bracket.



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

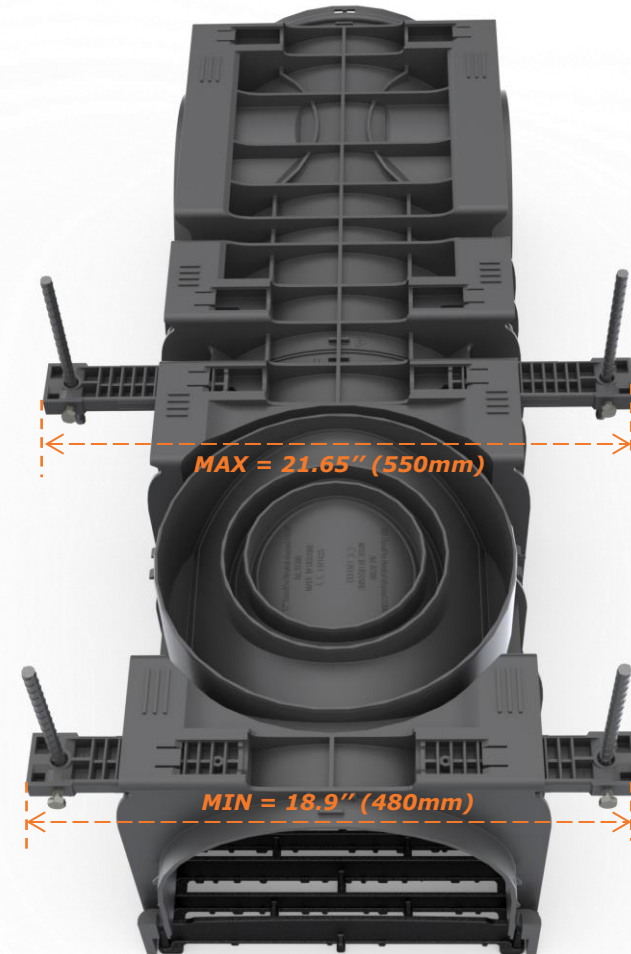


Step 5. After installing the nut, adjust the height of the channel and fix it with bolts to prevent vertical displacement.



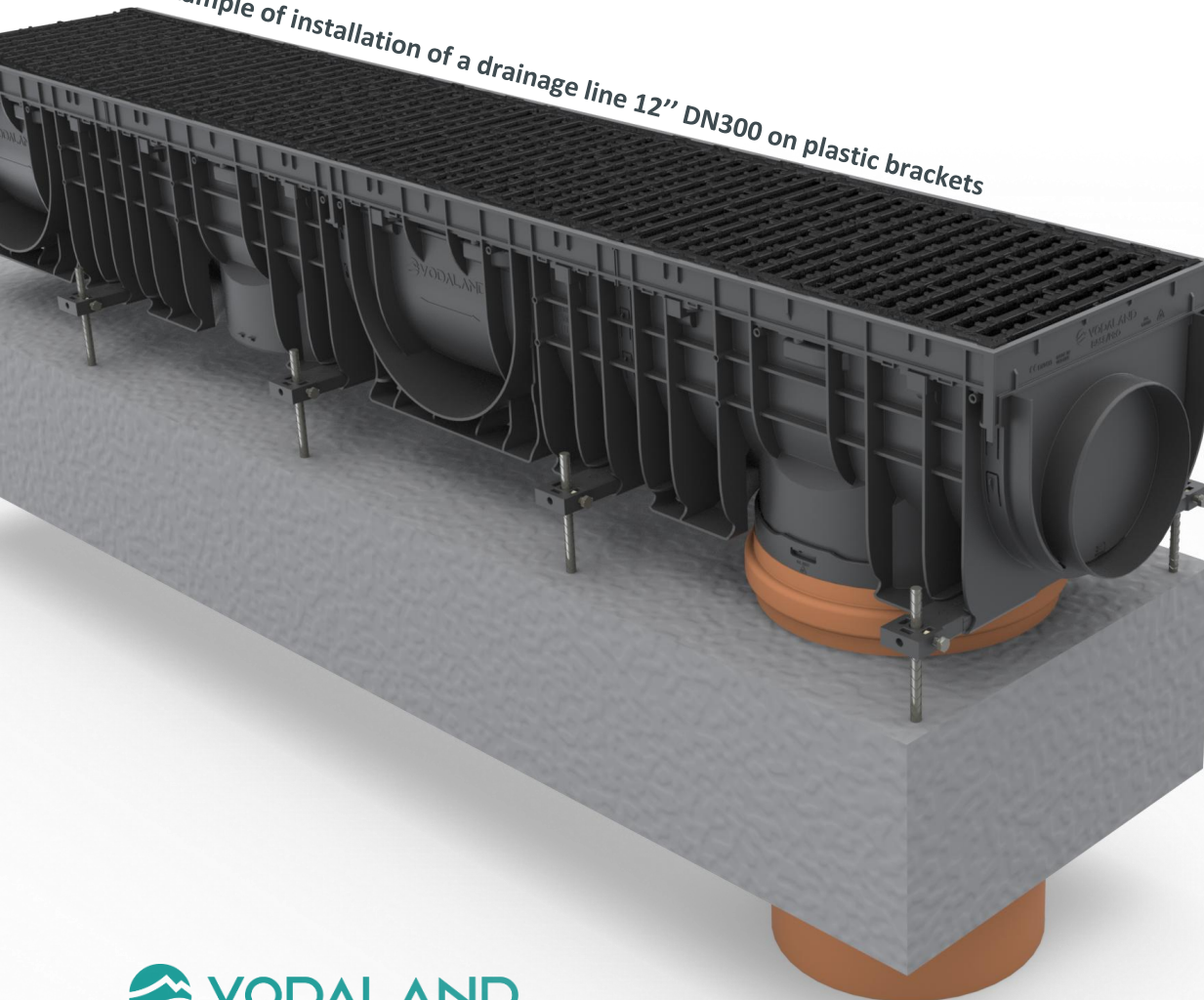
Step 6. After verifying the width and height of the ducts, the first stage of pouring the concrete cage takes place.






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.

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 | | | 68211-35 (OZ) 682119-35 (SS) 68211-60 (OZ) 682119-60 (SS) | | 22303 22303-K C250 | | 22202 (OZ) 22502 (SS) B125 | | 6850182 8581182 (w.o. bas.) | 25151 A15 | | |
| | 82200/82201 7.87"/8.86" (Hig.b) H200/H225 (Hig.b) | 632-2 4" DN110 | | 6327.1 3.94"-7.87" H100-H200 | | 6120-35 (OZ) 6120-60 (OZ) | | 224031-ADA 224031-ADA-K C250 - Hig.b | 22101 A15 | | 22901 A15 | 685182 | 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 | | | 68511-35 (OZ) 685119-35 (SS) 68511-60 (OZ) 685119-60 (SS) | | 25303 25303-K C250 | | 252016 (OZ) 255016 (SS) A15 | 8580 21.65" H550 | 858018 8581018 (w.o. bas.) | 25252 (OZ) 25552 (SS.) B125 ADA | 68601 | |
| | 85200/85201 7.87"/8.86" (Hig.b) H200/H225 (Hig.b) | 635-2 4" DN110 | | 6357.1 3.94"-7.87" H100-H200 | | 6855 8" DN200 | | 253034 253034-K C250 | 25101 A15 | 25202 (OZ) 25502 (SS) B125 ADA | 8581 (Hig.b) 22.64" H575 | 858018.9 858118.9 (w. bas.) | 252518 (OZ) 255518 (SS.) A15 ADA (w.o. CF) | | |
| | 85300/85301 11.81"/12.8" (Hig.b) H300/H325 (Hig.b) | 635-4 8" DN200 | | 6357.2 7.87"-11.81" H200-H300 | | 61507-35 (OZ) 61507-60 (OZ) | | 254031-ADA 254031-ADA-K C250 - Hig. B | 25901 A15 | 252018 (OZ) 255018 (SS) A15 ADA (w. CF) | 2520281 (OZ) 2550281 (SS) B125 ADA (w. CF) | 68518 | 2525181 (OZ) 2555181 (SS.) A15 ADA (w. CF) | 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 | | 2730311 2730311-K C250 | | | | | | | |

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




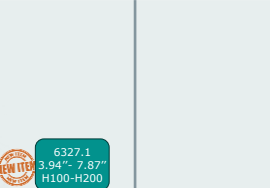
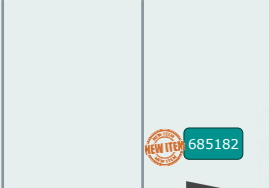



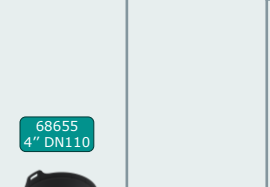

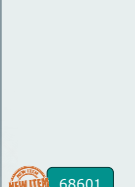



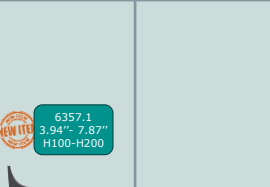






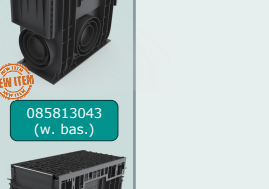







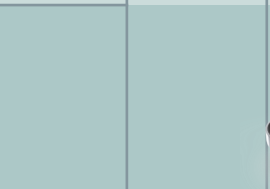
If there is no visible boundary, the product is universal for several lines

| 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 | | | 68211-35 (OZ) 682119-35 (SS) 68211-60 (OZ) 682119-60 (SS) | | 22303 22303-K C250 | | | | | | 8587182 (OZ) 85879182 (SS) | 25151 A15 | |
| | 82207 (OZ) 822079 (SS) H7.87" (200) | 632-2 4" DN110 | | 6327.1 3.94" - 7.87" H100-H200 | | 6120-35 (OZ) 6120-60 (OZ) | 6848 | 224031-ADA 224031-ADA-K C250 - Hig. b. | 22101 A15 | 22202 (OZ) 22502 (SS) B125 | | 685182 | 8587182.9 (OZ) 85879182.9 (SS) | 252516(OZ) 255516 (SS.) A15 | 25951 A15 | |
| 8" DN200 | 85107 (OZ) 851079 (SS) H3.94" (100) | 635100 | 6351008 3" DN75 | | | 6220-35 (SS) 6220-60 (SS) | | 2230211 2230211-K B125 | 22901 A15 | | | 8587 (oll.) 85879 (w.) 21.65"(H550) | | 25252 (OZ) 25552 (SS) B125 ADA | | 68601 |
| | 85207 (OZ) 852079 (SS) H7.87" (200) | 635-2 4" DN110 | | 6357.1 3.94" - 7.87" H100-H200 | | 6855 6" DN160 | 6848 | 2230311 2230311-K C250 | | 252016 (OZ) 255016 (SS) A15 | 6859 | | 858718 (OZ) 8587918 (SS) | 252518 (OZ) 255518 (SS) A15 ADA (w.o CF) | | |
| | 85307 (OZ) 853079 (SS) H11.81(300) | 635-4 8" DN200 | | 6357.2 7.87"-11.8" H200-H300 | | 62507-35 (SS) 62507-60 (SS) | | 254031-ADA 254031-ADA-K C250 - Hig. b. | 25101 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) | | |
| | | | | | | 61507-35 (OZ) 61507-60 (OZ) | | 2530211 2530211-K C250 | 25901 A15 | 2520181 (OZ) 2550181 (SS) A15 ADA (w. CF) | | | 2525281 (OZ) 2555281 (SS) B125 ADA (w. CF) | | | |
| | | | | | | | | 2530311 2530311-K C250 | | 2520281 (OZ) 2550281 (SS) B125 ADA (w. CF) | | | | | | |
| | | | | | | | | 25403-ADA 25403-ADA-K C250 | | | | | | | | |



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>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>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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