

HydroBlock™

Installation Guide for Asphalt Paving



The following should be used as a guide only. Always consult local codes for specific requirements regarding trench drain installation in your area before beginning.

Use caution. Wear gloves, safety glasses, and other protective equipment during handling and installation.

Supply

Drainage

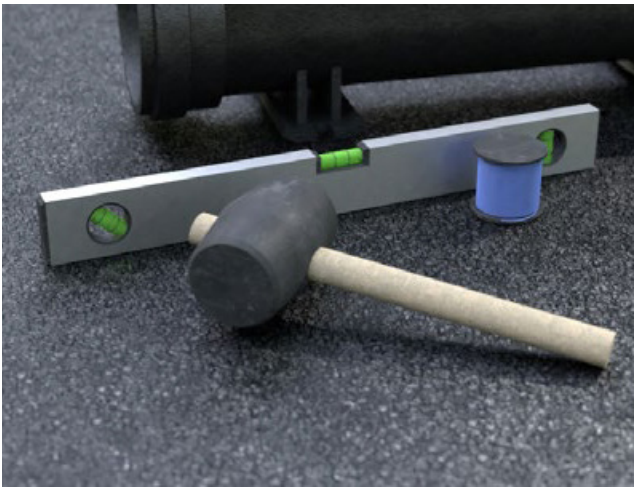
Support

Specialties

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TAKE THE FIELD.

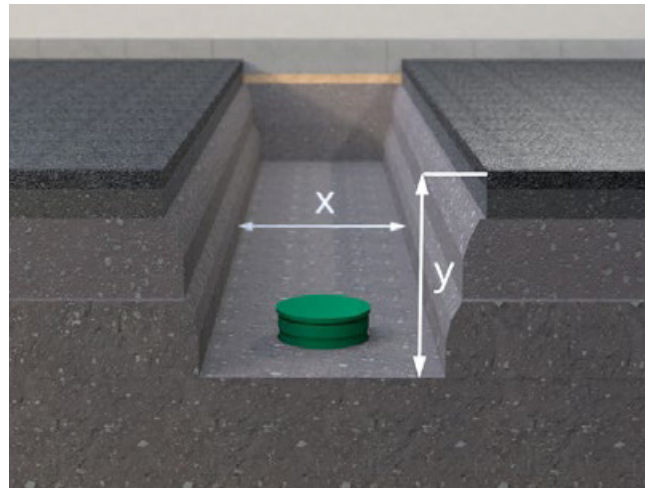




Preparation

Plan how the rainwater will drain away, e.g. via an existing underground pipe or a nearby trench.

Recommended tools for installation: rubber mallet, level and string with holding rods.



Excavate

Dig a trench according to the application and load rating:

Up to D400 Loads:

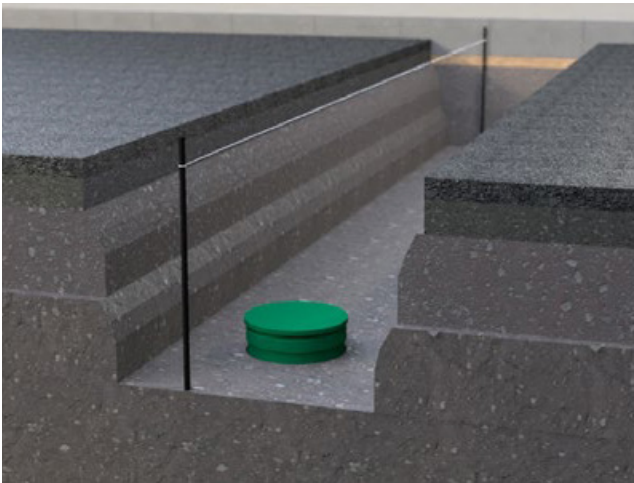
X = 6" + HydroBlock channel width

Y = 8" + HydroBlock channel height

Up to F900 Loads:

X = 8" + HydroBlock channel width

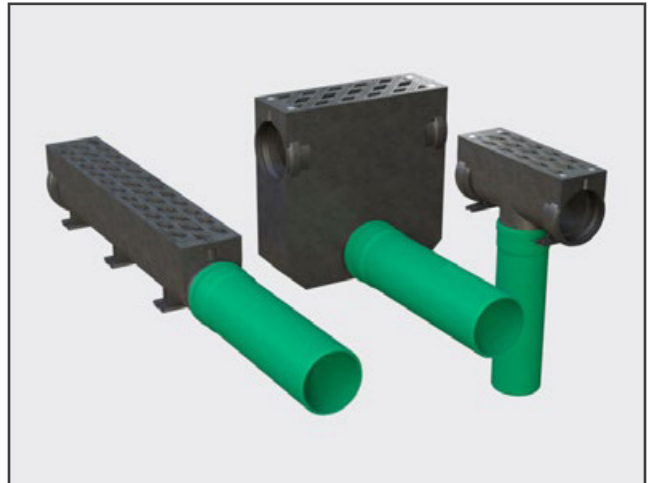
Y = 10" + HydroBlock channel height



Determine Position

Determine the course of the HydroBlock channel with a string. The string is also used later for leveling the channel elements.

The finished height of the channel should be 1/8" – 3/16" below the top edge of the asphalt.



Determine Outlet Type

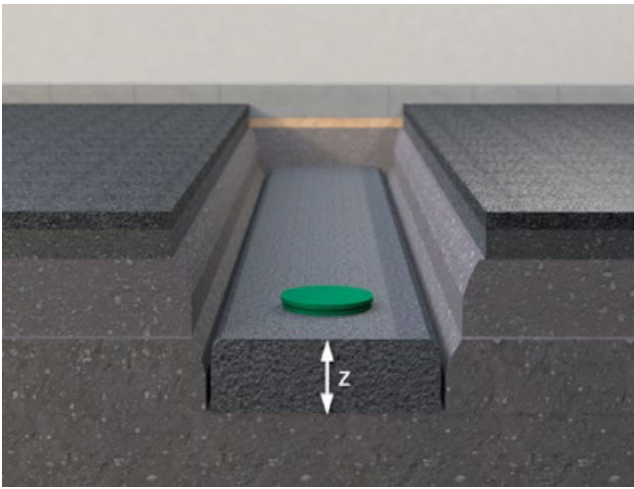
The channel installation will begin with the outlet element. Drain elements with vertical outlets or catch basins can be used for this purpose. Alternatively, the spigot end of the HydroBlock can be used to connect a pipe.

Note: When using a catch basin, the trench must be excavated deeper.

Concrete used for footings/support must be minimum 4,000 PSI compressive strength.

Always consult local codes for specific requirements regarding trench drain installation in your area before beginning.

Sioux Chief accepts no responsibility for incorrect installation.



Set Footing

Extend the underground pipe with a pipe joint. Set a concrete footing with in the trench according to the application and load rating:

Up to D400 Loads:

Z = 8"

Up to F900 Loads:

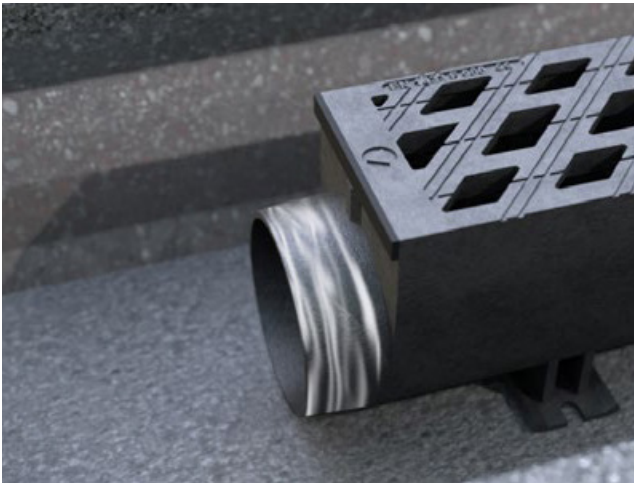
Z = 10"

The channel elements can be set when the concrete is earth-moist (EMC).



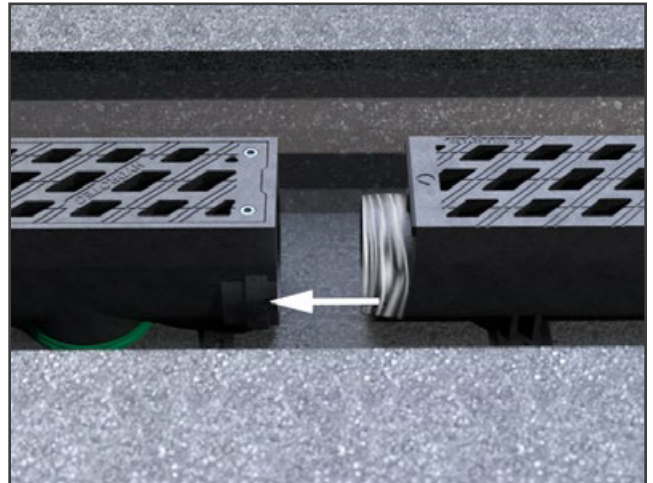
Set Outlet Element

Connect the outlet element on the underground pipe. The outlet opening should be covered until installation is complete to prevent dirt/debris from getting into the pipe.



Lubricate Joints

Before the drainage channel elements are joined together, apply lubricant to the spigot ends.

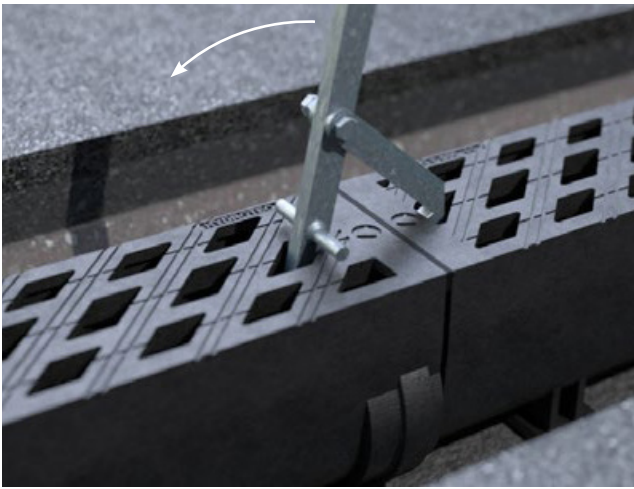


Set Channel Elements

Align the spigot and socket of the sections to be joined.

Initially, connect channel elements in place by LOOSELY inserting spigot ends into sockets (socket ends include rubber gaskets).

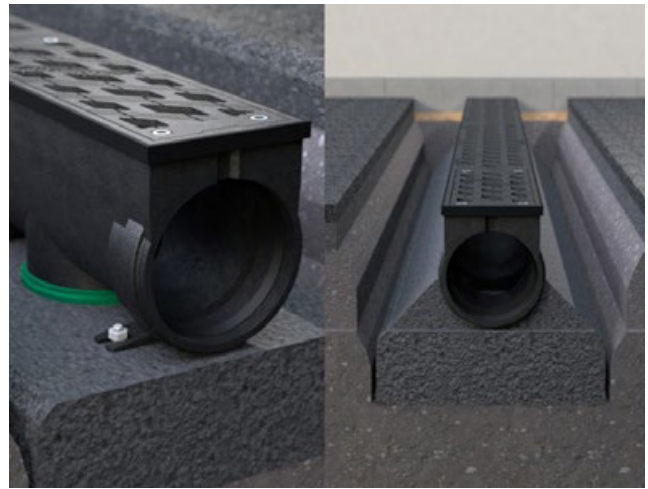
Concrete used for footings/support must be minimum 4,000 PSI compressive strength.
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Join Channels

Connect the channel elements together completely. The HydroBlock installation aid/tool can be used to facilitate pulling sections completely together.

After sections are joined, verify they are set at the intended elevation, making adjustments as necessary.



Channel Support

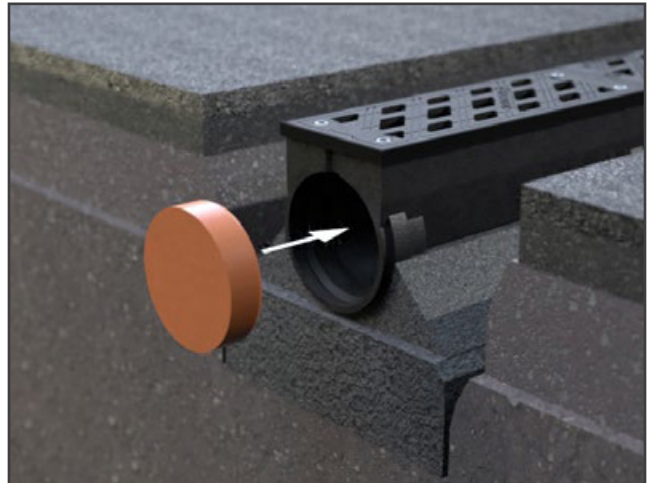
To prevent movement of the channels during paving, it is recommended to secure them to the footing with concrete anchors or to pour a concrete mounting support on the sides.



Tape Edges

To compensate for transverse expansion/contraction, it is recommended* to apply a self-adhesive bituminous tape to the long sides of the channels.

* Not a requirement



Install End Caps

Install caps at ends of the channel:

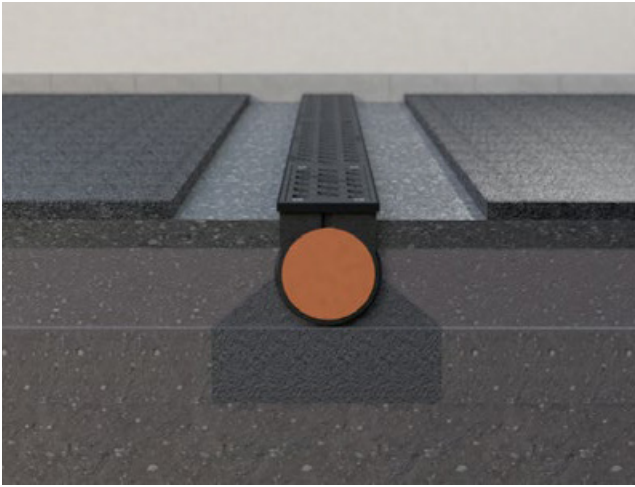
865-HB_EC Fits into socket ends

865-HB_OC Fits over spigot ends

Concrete used for footings/support must be minimum 4,000 PSI compressive strength.

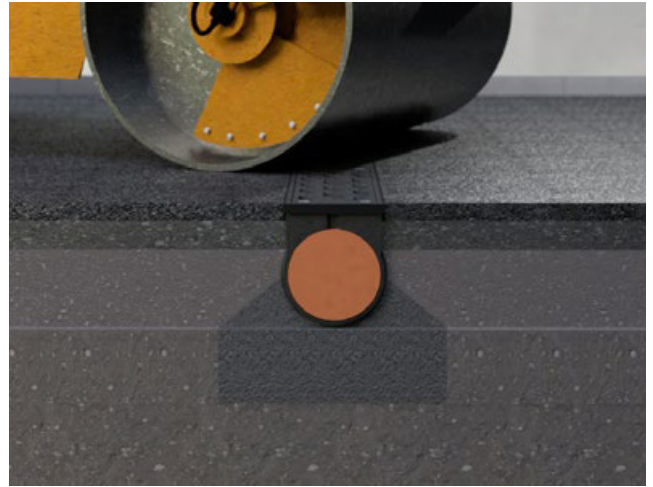
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Fill In Around Channels

Lay the load-bearing sub-structure and asphalt binder course around both sides of the drainage channel.



Pave

Lay asphalt on both sides of drainage channel and roll.

The finished height of the channel should be 1/8" - 3/16" below the top edge of the asphalt.



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»» We're Here to Help!

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Support Materials:

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- BIM/Revit files
- Job Sketches / Design layouts

Professional Services:

- System selection and optimization
- Hydraulic calculations

TAKE THE FIELD.

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