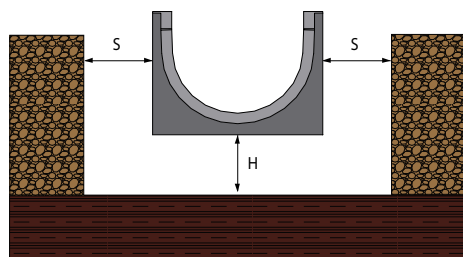


## Instructions for the installation



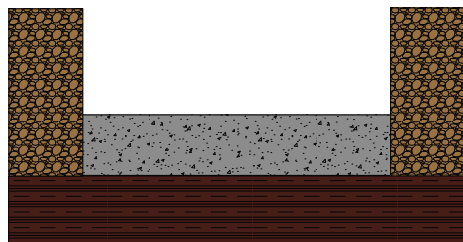
### Step 1

#### Dimensioning of the trench

The excavation to be made for the lying of the Drain System channels must take into account:

- 1) the channel dimension and the discharge outlet pipes;
- 2) adequate space for the foundation H and concrete side flanking S.

The foundation and the flanking dimensions are listed in the table at the bottom of page nr. 2.

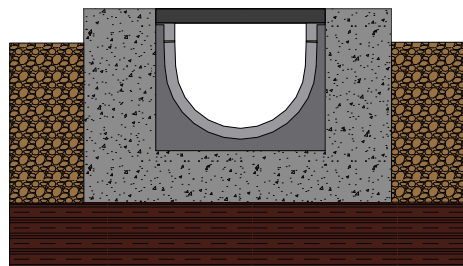


### Step 2

#### Concrete foundation

Lay the concrete foundation H up to the height indicated, arranging, in this phase, eventual inclination in the drain line.

For class of loads E and F, we suggest to strengthen the foundation with reinforcing rods.



### Step 3

#### Channels installation

Lay the channels starting from the flow outlet and block them at the base in order to avoid their floating and their line skew during the concrete cast for the flanking.

Arrange the required discharge outlets and carry out the side flanking up to the maximum height allowed, as shown in the drawings on page 2.

First insert and block the requested gratings: in order to make the layout instruction quicker and to avoid the channels edges shrinkage due to the concrete pressure.

Carry out the concrete flanking with reinforcing rods as well as the concrete foundation (see step 2).

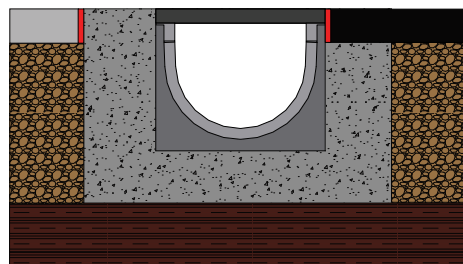
In case it is required a water proofing drainage line, we recommend to use a bituminous silicon sealant; we suggest "Shell Tixophalte". Apply a sealing stripe on each slot between the channels.

We strongly suggest to apply the stripes of "Shell Tixophalte" in the groove before coupling the channels.

Eventually longer lasting and complete waterproofing performance can be obtained by welding the joints.

To avoid concrete stains on the gratings during the installation, we suggest to protect the

**NEW:**  
The new mufledrain channels can also be joined together with the gratings/covers



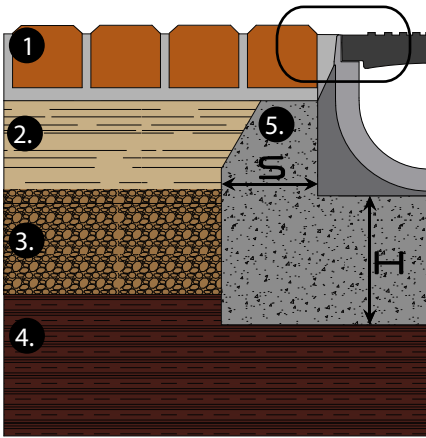
### Step 4

#### Final finishing

Install the final finishing making sure to bring the upper profile at least 3 mm above the flow of the grating or channel side. Take off the protective film and fix the grating by required means.

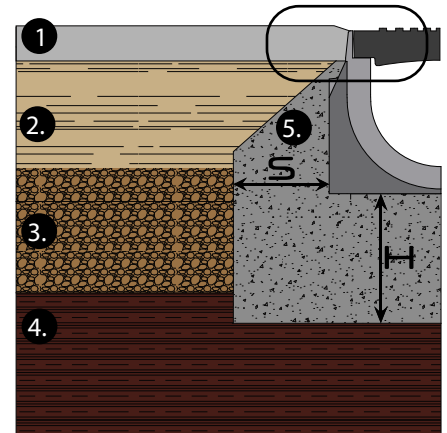
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Rev.00

## Example 1. Flooring (A15-B125)

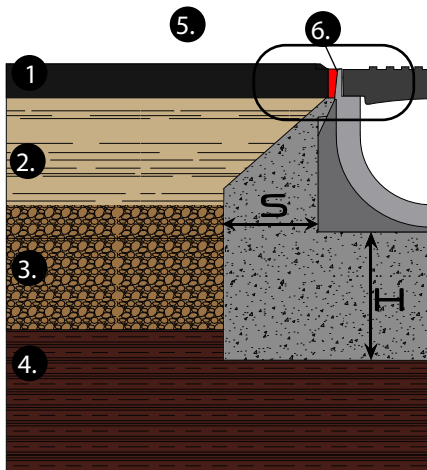


1. Flooring
2. Lower Layer
3. Bearing Layer
4. Subfloor
5. Concrete reinforcement Layer

## Example 2. Concrete flooring (A15-B125-C250)

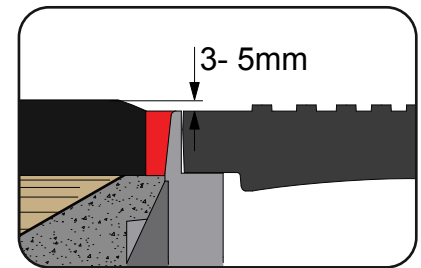


1. Flooring
2. Lower Layer
3. Bearing Layer
4. Subfloor
5. Concrete reinforcement Layer



## Example 3. Asphalt (A15-B125-C250)

1. Flooring
2. Lower Layer
3. Bearing Layer
4. Subfloor
5. Concrete reinforcement Layer
6. Bitumen joint



The present data sheet is to be used only as a suggestion for the laying of the MufleDrain channels. For every installation we recommend you to check the following:

- the load capacity of the foundation
- use concrete with the advised characteristics
- respect the height of the laying bed and the flanking thickness.

## Technical Data

| Class of load (EN 1433)   | A 15        | B 125       | C 250       | D 400       |
|---|-------------|-------------|-------------|-------------|
| Applicable load (EN 1433)   | 15 kN       | 125 kN      | 250 kN      | 400 kN      |
| Minimum height (H) of concrete laying bed                           | 100 mm      | 100 mm      | 150 mm      | 200 mm      |
| Minimum thickness (S) of the concrete flanking                      | 100 mm      | 100 mm      | 150 mm      | 200 mm      |
| Class of concrete (resistance to compression EN 206-1)              | C 20/25     | C 25/30     | C 25/30     | C 25/30     |
| Class of concrete (resistance to compression EN 206-1) <sup>1</sup> | C 30/37 XF4 | C 30/37 XF4 | C 30/37 XF4 | C 30/37 XF4 |

<sup>1</sup>with danger of frost

Therefore the concrete with constituency class S4 (EN 206-1)) is recommended and the rock aggregate will have to be made of stones with a maximum diameter of 6/8 mm.