# VELA Edge Slot Drain H.84 WITH STAINLESS STEEL PROFILE H.20

## INDEX

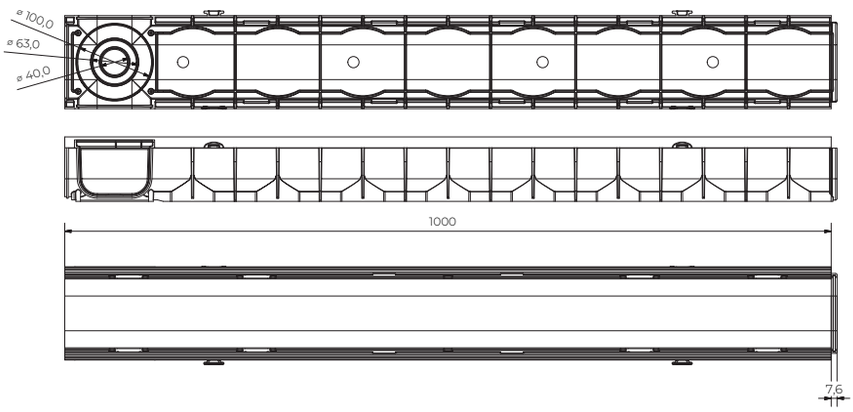


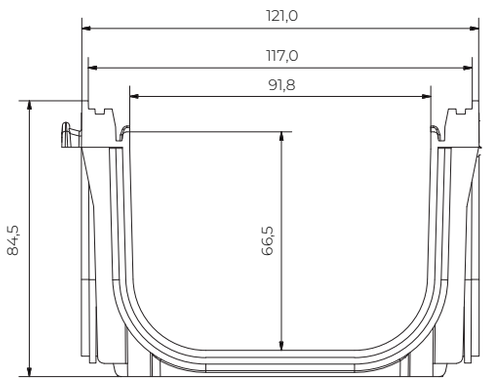
## 1. CODE REGISTRY

| Code | Description | Dimensions (mm) | Weight | Colour | Pkg. / Pallet |
|---|---|---|---|---|---|
| DCD-VL84-SD20 | VELA Edge Slot Drain H.84 WITH STAINLESS STEEL PROFILE H.20 | 121 x 104 x 1.000 | 2,3 kg/pc. | Black | 1 pc. / 120 pcs |

**MATERIAL** Channel made of PP (polypropylene) - Grating made of PP (polypropylene) with stainless steel profile.

### CHANNEL TECHNICAL DETAILS



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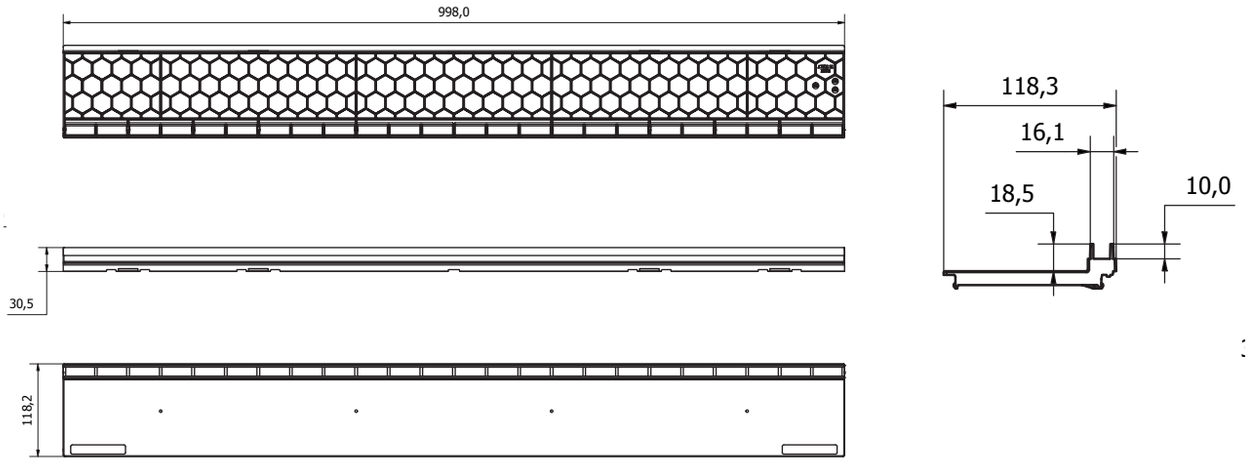
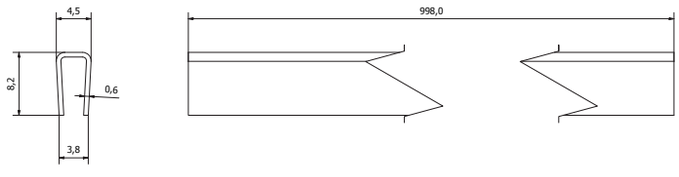
## GRATING TECHNICAL DETAILS




## STAINLESS STEEL PROFILE DETAILS

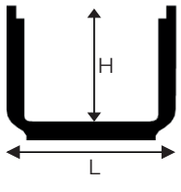



## 2. USE

Used for the collection and drainage of rainwater.
The matching to its range of gratings allows the use in pedestrian or light traffic areas.

## 3. FLOW RATE

The flow rate of the channel is calculated accordind to the Chezy Formula.




$\Omega$ = Channel Water Passage Section = H · L
$\Pi_{theorical}$ = Perimeter Theorical Moistened Max = L + 2H
$\Pi_{measured}$ = Perimeter Measured Moistened Max
$R_i$ = Radius Plumber = $\Omega$ / $\Pi_{measured}$
$i_f$ = Channel Slope
X = Friction Coefficient

V = Water Speed
$V = X \sqrt{(R_i \cdot i_f)}$
$\gamma$ = Bazin Coefficient
$X = 87 / (1 + (\gamma / \sqrt{(R_i)}))$
$Q = Scope = V \cdot \Omega$

| CHANNEL | Water Passage | | | | | | Friction Coef. | Bazin Coef. | Slope % | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H mm | L mm | Ω mm | Πtheor. mm | Π meas. mm | $R_i$ | | | 0,50 % | 1,00 % | 1,50 % | 2,00 % | 3,00 % |
| | | | | | | | | | Flow Rate (Litres/second) | | | | |
| VELA channel | 66,5 | 91,8 | 5.965 | 223 | 205 | 29 | 64,36 | 0,06 | **4,63** | **6,55** | **8,02** | **9,26** | **11,34** |

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## 4. TECHNICAL SPECIFICATION

| Specification | Description | Unity | Price |
|---|---|---|---|
| **DCD-VL84-SD20** | Supply and installation of drainage VELA Channel for collection of meteoric waters.<br>Engeneered and reinforced for an high resistance.<br>It is available in black colour.<br>Botton outlet are ø 40/63/100 mm<br>The channel is sold with pre-mounted polypropylene Black Slot Grating h.20 with stainless steel profiles.<br>Class A15, accordind to UNI EN 1433.<br>Channel made of PP (polypropylene) - Grating made of PP (polypropylene) with stainless steel profile.<br>Used for the collection and drainage of rainwater.<br>The matching to its range of galvanized steel grating gratings allows the use in pedestrian or light traffic areas.<br>Black..... | pc. | - |