

**Trench drain body with integral galvanized steel rails - 39.40" (1000mm) length**

Channel body BG-FILCOTEN® tec V NW100 (4") – heavy duty series

|   | Body part number<br>galv. rails | Channel<br>type | Slope | Overall body depth |                 | Maximum flow rate |        |        | Weight (less grate) |      |
|---|---------------------------------|-----------------|-------|--------------------|-----------------|-------------------|--------|--------|---------------------|------|
|   |                                 |                 |       | E1 (Min.)          | E2 (Max.)       | GPM *)            | LPS *) | CFS *) | lb                  | kg   |
| ○ | 10410200                        | 100/0           | 0 %   | 5.31 " (135 mm)    | 5.31 " (135 mm) | 47.6              | 3.0    | 0.11   | 28.66               | 13.0 |
| ○ | 10410201                        | 100/1           | 0.5 % | 5.31 " (135 mm)    | 5.51 " (140 mm) |                   |        |        | 29.54               | 13.4 |
| ○ | 10410202                        | 100/2           | 0.5 % | 5.51 " (140 mm)    | 5.71 " (145 mm) |                   |        |        | 31.08               | 14.1 |
| ○ | 10410203                        | 100/3           | 0.5 % | 5.71 " (145 mm)    | 5.91 " (150 mm) |                   |        |        | 32.63               | 14.8 |
| ○ | 10410204                        | 100/4           | 0.5 % | 5.91 " (150 mm)    | 6.10 " (155 mm) |                   |        |        | 33.95               | 15.4 |
| ○ | 10410205                        | 100/5           | 0.5 % | 6.10 " (155 mm)    | 6.30 " (160 mm) |                   |        |        | 35.05               | 15.9 |
| ○ | 10410261                        | 100/5-0         | 0 %   | 6.30 " (160 mm)    | 6.30 " (160 mm) | 69.7              | 4.4    | 0.16   | 35.49               | 16.1 |
| ○ | 10410206                        | 100/6           | 0.5 % | 6.30 " (160 mm)    | 6.50 " (165 mm) |                   |        |        | 36.16               | 16.4 |
| ○ | 10410207                        | 100/7           | 0.5 % | 6.50 " (165 mm)    | 6.69 " (170 mm) |                   |        |        | 37.04               | 16.8 |
| ○ | 10410208                        | 100/8           | 0.5 % | 6.69 " (170 mm)    | 6.89 " (175 mm) |                   |        |        | 38.36               | 17.4 |
| ○ | 10410209                        | 100/9           | 0.5 % | 6.89 " (175 mm)    | 7.09 " (180 mm) |                   |        |        | 39.68               | 18.0 |
| ○ | 10410210                        | 100/10          | 0.5 % | 7.09 " (180 mm)    | 7.28 " (185 mm) |                   |        |        | 40.79               | 18.5 |
| ○ | 10410262                        | 100/10-0        | 0 %   | 7.28 " (185 mm)    | 7.28 " (185 mm) | 95.1              | 6.0    | 0.21   | 41.23               | 18.7 |
| ○ | 10410211                        | 100/11          | 0.5 % | 7.68 " (195 mm)    | 7.68 " (200 mm) |                   |        |        | 45.30               | 20.6 |
| ○ | 10410212                        | 100/12          | 0.5 % | 7.87 " (200 mm)    | 8.07 " (205 mm) |                   |        |        | 46.08               | 20.9 |
| ○ | 10410213                        | 100/13          | 0.5 % | 8.07 " (205 mm)    | 8.27 " (210 mm) |                   |        |        | 46.96               | 21.3 |
| ○ | 10410214                        | 100/14          | 0.5 % | 8.27 " (210 mm)    | 8.46 " (215 mm) |                   |        |        | 50.49               | 22.9 |
| ○ | 10410215                        | 100/15          | 0.5 % | 8.46 " (215 mm)    | 8.66 " (220 mm) |                   |        |        | 50.93               | 23.1 |
| ○ | 10410216                        | 100/16          | 0.5 % | 8.66 " (220 mm)    | 8.86 " (225 mm) |                   |        |        | 52.47               | 23.8 |
| ○ | 10410217                        | 100/17          | 0.5 % | 8.86 " (225 mm)    | 9.05 " (230 mm) |                   |        |        | 53.13               | 24.1 |
| ○ | 10410218                        | 100/18          | 0.5 % | 9.05 " (230 mm)    | 9.25 " (235 mm) |                   |        |        | 59.30               | 26.9 |
| ○ | 10410219                        | 100/19          | 0.5 % | 9.25 " (235 mm)    | 9.45 " (240 mm) |                   |        |        | 61.73               | 28.0 |
| ○ | 10410220                        | 100/20          | 0.5 % | 9.45 " (240 mm)    | 9.65 " (245 mm) |                   |        |        | 61.07               | 27.7 |
| ○ | 10410264                        | 100/20-0        | 0 %   | 9.65 " (245 mm)    | 9.65 " (245 mm) | 152.2             | 9.6    | 0.3    | 69.9                | 31.7 |

\*) GPM = Gallons par minute, LPS = Litres par seconde, CFS = Pieds cubes par seconde

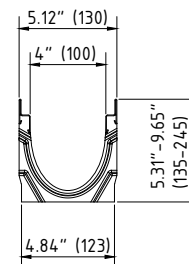
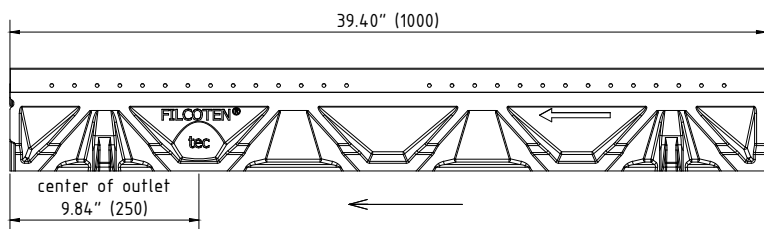
\* Note 1: Load class D and E is attainable in a full concrete base - Installation must be conform to manufacturer's installation details for BG-FILCOTEN tec-V class D and E.

\* Note 2: Not for use on highways.

**Specification:** BG-FILCOTEN tec-V NW100, 5.12" (130mm) wide, 39.40" (1000mm) long, pre-sloped (0.5%) or neutral BG-FILCOTEN trench drain system. Channel body is manufactured from a high performance concrete HPC material. Bodies have interlocking ends, a radiused extract for efficient liquid drainage and a multiple anchoring ribs to securely hold the body into the concrete foundation. Each body is manufactured with an integral 0.08" (2mm) thick, extra heavy duty, galvanized steel rail. End and bottom outlets are available in 4" (100mm) no hub outlet connections. Grate options include extra heavy duty ductile iron (Load Class C), slotted and perforated heavy duty galvanized steel (Load Class A and C), mesh grating galvanized steel (Load Class B and C), and plastic com"site grating (Load Class B and C), Slot Tops units (Load Class B - D). Decorative grates are available. Grates are secured to the body with a fourpoint self-locking system. Catch basins and other accessories are also available.

**Function:** Used in commercial areas such as factories, warehouses, parking garages, car dealerships, gas stations, public and residential areas, parks, sports complexes, town squares, railway stations and cycle and foot paths. Ideal for environmentally sensitive areas because the body channels are free of resins, heavy metals, VOC and chemicals. Exceptional adhesion to surrounding concrete foundation due to the concrete composition of the body channels - resulting in a monolithic all concrete installation. Less breakage during transport and installation due to impact resistant, fibre-reinforced, UV resistant concrete material. Extra heavy duty integral galvanized steel rail allows for heavy duty, hard wheel traffic applications.

tec NW100 V 10410200



**MATERIALS:** Channels shall be manufactured from FILCOTEN® HPC (High Performance Concrete). Minimum properties of FILCOTEN® HPC will be as follows:

|  |           |
|--|-----------|
| Compressive strength according to ASTM C39:                      | 11700 PSI |
| Flexural strength:   | 1700 PSI  |
| Free of release agents:  | YES       |
| Water absorption sufficient for adhesion with concrete surfaces: | YES       |
| Non flammable:   | YES       |

|   |     |
|---|-----|
| U/V resistant:  | YES |
| Recyclable 100%:  | YES |
| Dilute acid and alkali resistant:   | YES |
| Frost thaw salt tested as per EN1433 with a test temperature up to -40°C (-40°F): | YES |
| Resistant to rapid freezing & thawing according to ASTM C666                      | YES |
| Resistant to chloride ion penetration according to ASTM C1202                     | YES |
| Material free of VOC, biocides, heavy metals:                                     | YES |