

**Trench drain body with integral cast iron rails - 39.40" (1000mm) length**Channel body BG-FILCOTEN<sup>®</sup> pro G NW 100 (4") – extra heavy duty series

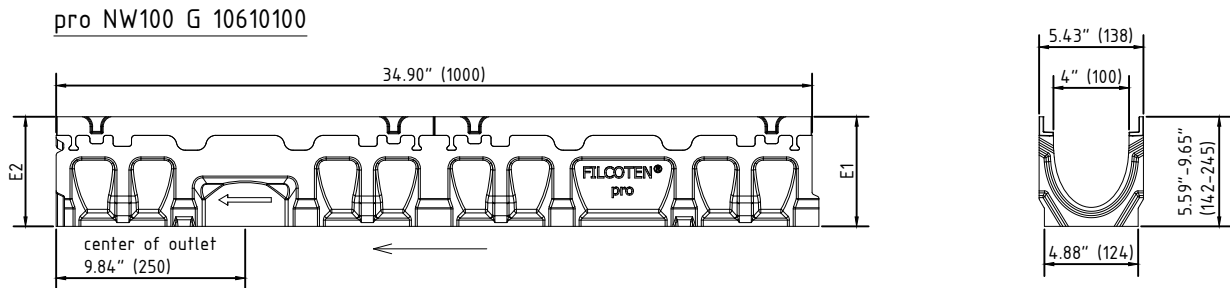
	Body part number cast iron rails	Channel type	Slope	Overall body depth		Maximum flow rate			Weight (less grate)	
				E1 (Min.)	E2 (Max.)	GPM *)	LPS *)	CFS *)	Lbs	Kg
○	10610100	100/0	0 %	5.59" (142 mm)	5.59" (142 mm)	47.6	3.0	0.11	42.11	19.1
○	10610101	100/1	0.5 %	5.71" (145 mm)	5.91" (150 mm)				42.99	19.5
○	10610102	100/2	0.5 %	5.91" (150 mm)	6.10" (155 mm)				44.53	20.2
○	10610103	100/3	0.5 %	6.10" (155 mm)	6.30" (160 mm)				46.08	20.9
○	10610104	100/4	0.5 %	6.30" (160 mm)	6.50" (165 mm)				47.62	21.6
○	10610105	100/5	0.5 %	6.50" (165 mm)	6.69" (170 mm)				49.16	22.3
○	10610161	100/5-0	0 %	6.69" (170 mm)	6.69" (170 mm)	69.7	4.4	0.16	49.82	22.6
○	10610106	100/6	0.5 %	6.69" (170 mm)	6.89" (175 mm)				50.71	23.0
○	10610107	100/7	0.5 %	6.89" (175 mm)	7.09" (180 mm)				51.37	23.3
○	10610108	100/8	0.5 %	7.09" (180 mm)	7.28" (185 mm)				52.91	24.0
○	10610109	100/9	0.5 %	7.28" (185 mm)	7.48" (190 mm)				54.45	24.7
○	10610110	100/10	0.5 %	7.48" (190 mm)	7.68" (195 mm)				56.00	25.4
○	10610162	100/10-0	0 %	7.68" (195 mm)	7.68" (195 mm)	95.1	6.0	0.21	57.54	26.1
○	10610164	100/20-0	0 %	9.65" (245 mm)	9.65" (245 mm)	152.2	9.6	0.34	68.78	31.2

1) With cast-iron rail, tested up to cl. F 900 acc. to EN 1433. Installation according to the manufacturer's installation instructions.

\*) GPM = Gallons per minute, LPS = Liters per second, CFS = Cubic feet per second

**Specification:** BG-FILCOTEN pro-G NW100, 5.43" (138mm) wide, 39.40" (1000mm) long, pre-sloped (0.5%) or neutral BG-FILCOTEN trench drain system. Body is manufactured from a fibre-reinforced concrete based 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 0.20" (5mm) thick, extra heavy duty, cast iron rail. End and bottom outlets are available in 4" (100mm) no hub outlet connections. Grate options include extra heavy duty ductile iron (Load Class E), slotted heavy duty galvanized steel (Load Class F). Grates are secured to the body with a four point bolting system. End caps and catch basins 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 cast iron rail allows for heavy duty, hard wheel traffic applications.



**MATERIALS:** Channels shall be manufactured from FILCOTEN<sup>®</sup> HPC (High Performance Concrete). Minimum properties of FILCOTEN<sup>®</sup> 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