

HYDRO SYSTEM

ULMA, specialists in precast channelling and drainage systems, have launched a new range of **HYDRO** channels. EN-1433 Standard compliant and manufactured in thermoplastic matrix composite, Polypropylene (PP)/ Polyethylene (PEHD), with mineral filler reinforcement, the new **HYDRO** channels complement the wide range of existing Polymer Concrete products.

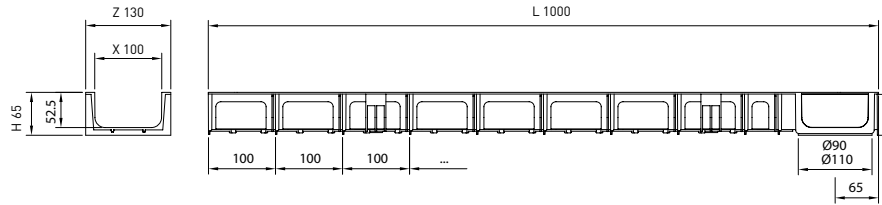


Salón de Pinos del Manzanares, Madrid. Over 8000 metres of HYDRO channels installed.

MAIN CHARACTERISTICS

- **Compatible with the full range of grates available for polymer concrete channels;** a limited product range covers all needs
- **The broadest range of grates** available in ductile casting, galvanized steel, stainless steel and plastic including the new heelproof versions.
- **Modular and robust design** for load classes of up to C250 in accordance with the EN-1433 Standard.
- **Lightweight and easy to transport and handle.**
- **High drainage capacity**
- **Simple leak tight** tongued and grooved assembly.
- **Premarked to cut at 0.5m** maintaining the leak tight tongued and grooved assembly.
- **Prejoined outlets,** vertical and horizontal.
- **Easy to trim** to any length with a manual saw.
- **End caps at start and end of line, with and without outlets.**
- **Installation instructions** printed on base of channel.
- **High resistance to chemical products.**
- Operating temperature range from -20°C to 80°C.

HYDROKIT



Code	L (mm)	H (mm)	Width (mm)		Outlet (mm)		Hydraul. Section (cm ²)	Pcs (x pallet)
			Z	X	Vert.	Horiz.		
HYDROKITH65	1000	65	130	100	90-110	Connection at 90° (1)	51	126

(1) Every channel has two preformed side knockouts for T, L and cross connections.

Slotted

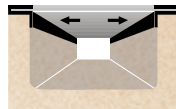


GRATING

Material	Design	Load	Code	L (mm)	Width (mm)	Thickness (mm)	Units (x lm)
GALVANIZED STEEL	SLOTTED	A 15	GN100UOA	1000	130	3	1

LOCKING SYSTEM

CLICK. Without screws



Closed

END CAPS

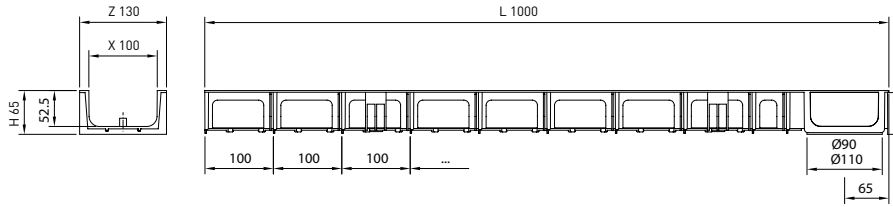
Code	Type
TH100H65C	CLOSED

LEAF GUARD

Code
FS90

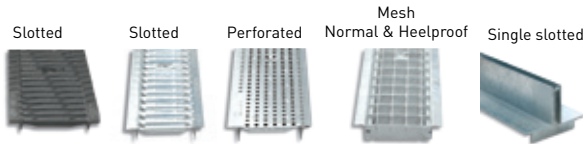


HYDROMINI



Code	L (mm)	H (mm)	Width (mm)		Ø Outlet (mm)		Hydraul. Section (cm ²)	Pcs (x pallet)
			Z	X	Vert.	Horiz.		
HYDROH65	1000	65	130	100	90-110	Connection at 90° (1)	51	204

[1] Every channel has two preformed side knockouts for T, L and cross connections.

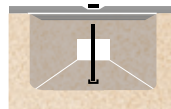


GRATINGS

Material	Design	Load	Code	L (mm)	Width (mm)	Thickness (mm)	Units (x lm)
DUCTILE IRON	SLOTTED	B 125	FNX100UCBM	500	130	6	2
	SLOTTED	C 250	FNX100UCCM	500	130	6	2
GALVANIZED STEEL	SLOTTED	A 15	GN100UCA	1000	130	3	1
	PERFORATED	A 15	GP100UCA	1000	130	3	1
	MESH	B 125	GEX100UCB33	1000	130	2	1
	HEELPROOF MESH	B 125	GEHX100UCB	1000	130	2	1
	SINGLE SLOTTED	C 250	GR100UOC	1000	130	70	1
	DOUBLE SLOTTED	C 250	GDR100UOC	1000	130	70	1
	STAINLESS STEEL	SLOTTED	A 15	IN100UCA	1000	130	3
PERFORATED		A 15	IP100UCA	1000	130	3	1
MESH		B 125	IEX100UCB	1000	130	3	1

LOCKING SYSTEM

SCREW LOCKING SYSTEM. 2 screw per metre.



Closed



END CAPS

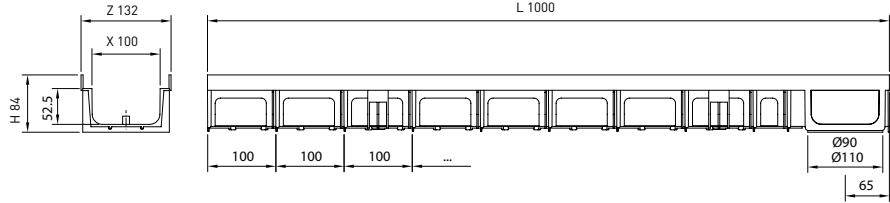
Code	Type
TH100H65C	CLOSED

LEAF GUARD

Code
FS90



HYDROMINIPLUS



Code	L (mm)	H (mm)	Width (mm)		Ø Outlet (mm)		Hydraul. Section (cm ²)	Pcs (x pallet)
			Z	X	Vert.	Horiz.		
HYDROPLUSH85	1000	84	132	100	90-110	Connection at 90° (1)	51	170

(1) Every channel has two preformed side knockouts for T, L and cross connections.

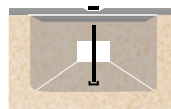


GRATINGS

Material	Design	Load	Code	L (mm)	Width (mm)	Units (x 1m)
COMPOSITE	HEELPROOF BLACK SLOTTED	A 15	PNH100KCAM	500	123	2
	HEELPROOF GREY SLOTTED	A 15	PNH100KCAM-GRIS	500	123	2
DUCTILE IRON	SLOTTED	C 250	FNX100KCCM	500	123	2
	HEELPROOF SLOTTED	C250	FNHX100KCCM	500	123	2
GALVANIZED STEEL	SLOTTED	A 15	GN100KCA	1000	123	1
	MESH	B 125	GEX100KCB	1000	123	1
STAINLESS STEEL	SLOTTED	A 15	IN100KCA	1000	123	1
	MESH	B 125	IEX100KCB	1000	123	1
	PERFORATED	A 15	IP100KCA	1000	123	1

LOCKING SYSTEM

SCREW LOCKING SYSTEM. 2 screw per metre.



Closed



END CAPS

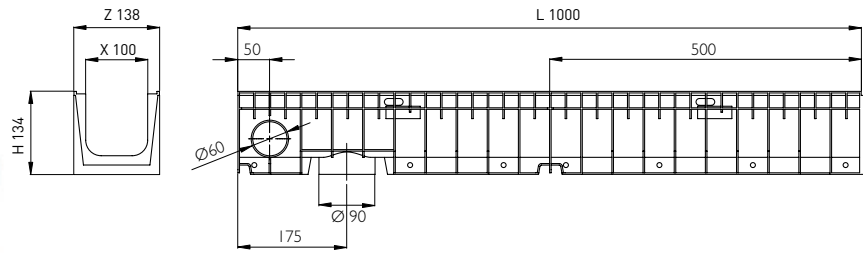
Code	Type
TH100H80C	CLOSED

LEAF GUARD

Code
FS90

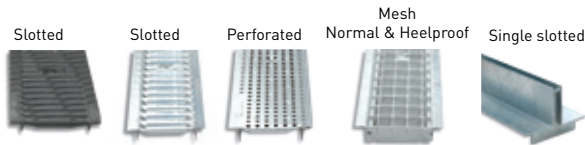


HYDRO



Code	L (mm)	H (mm)	Width (mm)		Ø Outlet (mm)		Hydraul. Section (cm ²)	Pcs (x pallet)
			Z	X	Vert.	Horiz.		
HYDRO	1000	134	138	100	90	60	97	90

GRATINGS

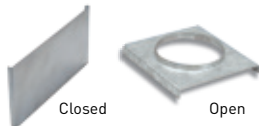


Material	Design	Load	Code	L (mm)	Width (mm)	Thickness (mm)	Units (x 1m)
DUCTILE IRON	SLOTTED	B 125	FNX100UCBM	500	130	6	2
	SLOTTED	C 250	FNX100UCCM	500	130	6	2
GALVANIZED STEEL	SLOTTED	A 15	GN100UOA (1)	1000	130	3	1
	SLOTTED	A 15	GN100UCA	1000	130	3	1
	PERFORATED	A 15	GP100UCA	1000	130	3	1
	MESH	B 125	GEX100UCB33	1000	130	2	1
	HEELPROOF MESH	B 125	GEHX100UCB	1000	130	2	1
	SINGLE SLOTTED	C 250	GR100UOC	1000	130	70	1
	DOUBLE SLOTTED	C 250	GDR100UOC	1000	130	70	1
STAINLESS STEEL	SLOTTED	A 15	IN100UCA	1000	130	3	1
	PERFORATED	A 15	IP100UCA	1000	130	3	1
	MESH	B 125	IEX100UCB	1000	130	3	1

(1) Without screws

LOCKING SYSTEM

LOCKING BAR. Two locking bars and two screws per linear metre.



END CAPS

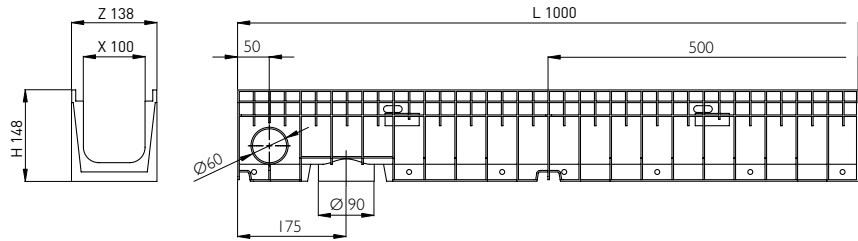
Code	Type	Ø (mm)
TH100C	CLOSED	-
TH100A	OPEN	Ø90

LEAF GUARD

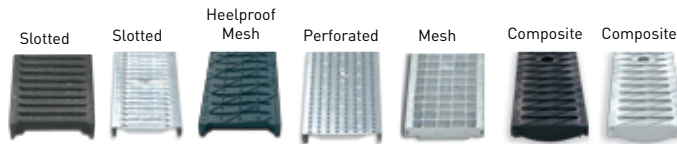
Code
FS90



HYDROPLUS



Code	L (mm)	H (mm)	Width (mm)		Ø Outlet (mm)		Hydraul. Section (cm ²)	Pcs (x pallet)
			Z	X	Vert.	Horiz.		
HYDROPLUS	1000	148	138	100	90	60	97	90

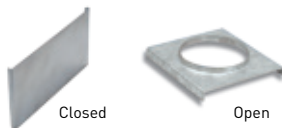


GRATINGS

Material	Design	Load	Code	L. (mm)	Width (mm)	Units (x lm)
COMPOSITE	HEELPROOF BLACK SLOTTED	A 15	PNH100KCAM	500	123	2
	HEELPROOF GREY SLOTTED	A 15	PNH100KCAM-GRIS	500	123	2
DUCTILE IRON	SLOTTED	C 250	FNX100KCCM	500	123	2
	HEELPROOF SLOTTED	C 250	FNHX100KCCM	500	123	2
GALVANIZED STEEL	SLOTTED	A 15	GN100KCA	1000	123	1
	MESH	A 15	GEX100KOA	1000	123	1
	PERFORATED	A 15	GP100KCA	1000	123	1
	MESH	B 125	GEX100KCB	1000	123	1
STAINLESS STEEL	SLOTTED	A 15	IN100KCA	1000	123	1
	PERFORATED	A 15	IP100KCA	1000	123	1
	MESH	B 125	IEX100KCB	1000	123	1

LOCKING SYSTEM

LOCKING BAR. Two locking bars and two screws per linear metre.

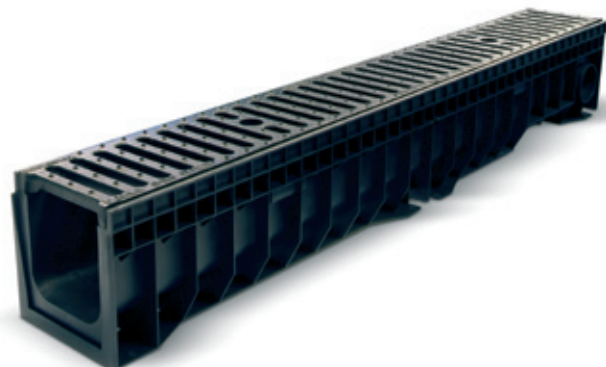


END CAPS

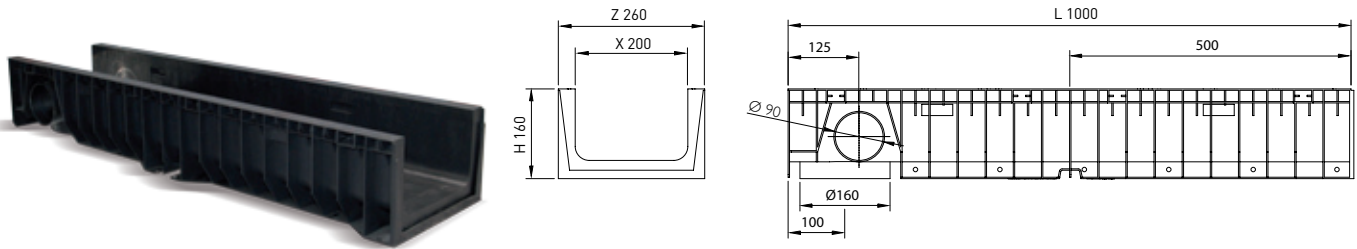
Code	Type	Ø (mm)
TH100KC	CLOSED	-
TH100KA	OPEN	Ø90

LEAF GUARD

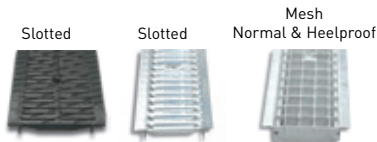
Code
FS90



HYDRO250



Code	L (mm)	H (mm)	Width (mm)		Ø Outlet (mm)		Hydraul. Section (cm ²)	Pcs (x pallet)
			Z	X	Vert.	Horiz.		
HYDRO250	1000	160	260	200	160	90	252	40

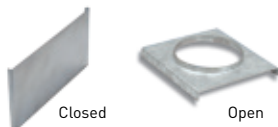


GRATINGS

Material	Design	Load	Code	L. (mm)	Width (mm)	Thickness (mm)	Units (x lm)
DUCTILE IRON	SLOTTED	C 250	FNX200UCCM	500	250	6	2
GALVANIZED STEEL	SLOTTED	A 15	GN200UCA	1000	250	4	1
	MESH	B 125	GEX200UCB33	1000	250	2,5	1
	HEELPROOF MESH	B 125	GEHX200UCB	1000	250	2,5	1

LOCKING SYSTEM

LOCKING BAR. Two locking bars and two screws per linear metre.

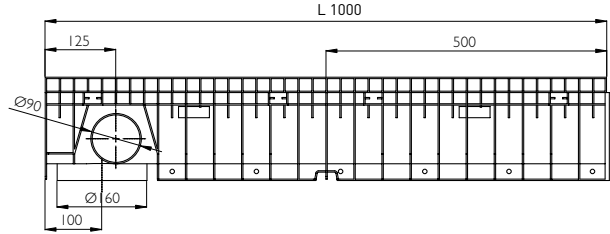
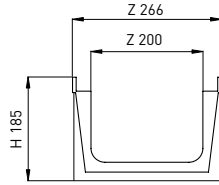
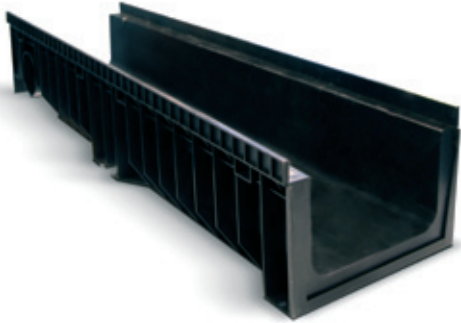


END CAPS

Code	Type	Ø (mm)
TH200C	CLOSED	-
TH200A	OPEN	Ø90



HYDRO250PLUS



Code	L (mm)	H (mm)	Width (mm)		Ø Outlet (mm)		Hydraul. Section (cm ²)	Pcs (x pallet)
			Z	X	Vert.	Horiz.		
HYDRO250PLUS	1000	185	266	200	160	90	252	40

Slotted



Mesh



GRATINGS

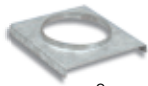
Material	Design	Load	Code	L. (mm)	Width (mm)	Units (x lm)
DUCTILE IRON	NERVADA	C 250	FNX200KCCM	500	250	2
GALVANIZED STEEL	ENTRAMADA	B 125	GE200KCB	1000	250	1

LOCKING SYSTEM

LOCKING BAR. Two locking bars and two screws per linear metre.



Closed



Open

END CAPS

Code	Type	Ø (mm)
TH200KC	CLOSED	-
TH200KA	OPEN	Ø110

