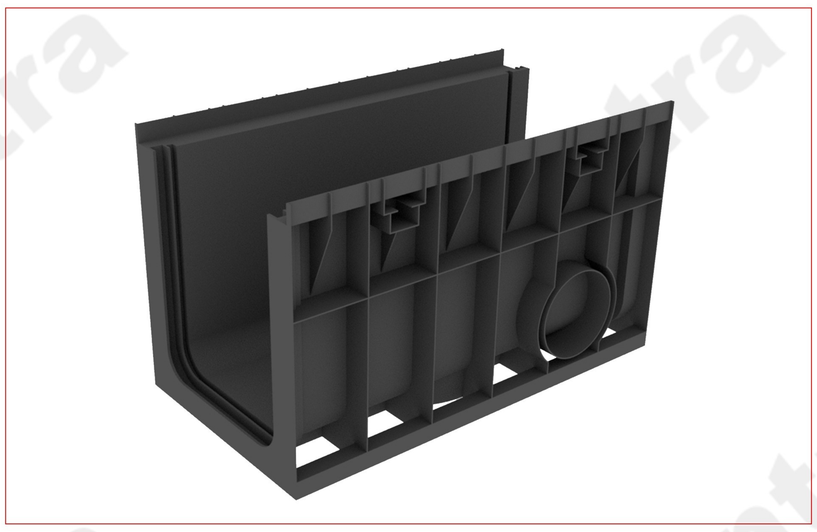
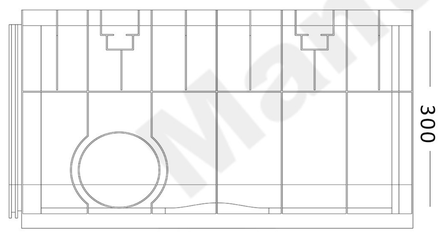
CHANNEL

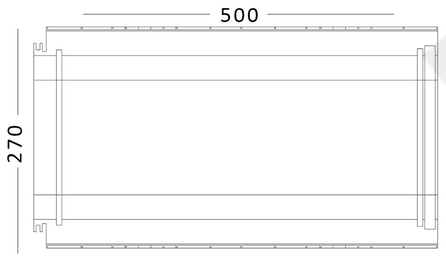
TYPE E600
PP
HDPE

Mantra
DRAIN SOLUTIONS

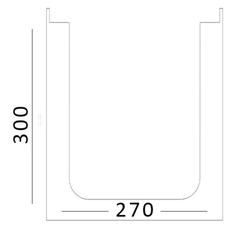




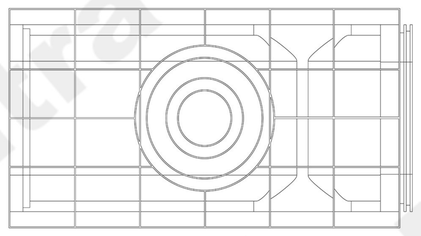
Side View



Top View



Front View



Bottom View

TECHNICAL DATA SHEET FOR PP/HDPE CHANNEL

CODE	MATERIAL	EXTERNAL DIMENTIONS Lxlxh (mm)	INTERNAL DIMENTIONS Lxlxh (mm)	WEIGHT (kg)
M09	PP_HDPE	500x270x300	500x200x250	1.59

TABLE 1

Dependence of chemical, physical and mechanical properties of POLYOLEFINS,on density and molecular structure

STRUCTURAL PARAMETERS	DENSITY g/cm³		MOLECULAR STRUCTURE	
Threshold values	0,900	0,970	considerably branched	linear
Crystallisation degree	+/-	+/+	-/-	+/+
Fluidity Index	°	°	°	°
Workability	+	-	+	-
Tensile strength and bending strength	→		→	
Elongation at break	←		←	
Rigidity and hardness	→		→	
Shock resistance	←		→	
Resistance to stress-induced cracks	→		→	
Crystal melting fi eld and heat deformation temperature	→		→	
Cold breaking temperature	→		→	
Chemical resistance and resistance to solvents	→		→	
Resistance to gas and vapour diffusion	→		→	

+ -: high or low values °: no special effects → : positive effect increasing in the direction of the arrow

TABLE 1

Summary of main characteristics of POLYOLEFINS

STRUCTURAL PARAMETERS	UNIT	LD-PE	PE-HD	PP-H	PP-R
Density	g/cm³	0,916-0,920	0,940-0,960	0,900-0,915	0,895-0,900
Elasticity modulus E (DIN 53457)	MPa	200-400	600-1400	1300-1800	600-1200
Tensile strength (DIN 53455)	N/mm²	8/23	18/35	21/37	21/37
Elongation (DIN 53455)	%	C.a. 20	C.a. 8-12	C.a. 8-18	C.a. 12-18
Melting point	°C	105-118	126-135	162-168	135-155
Thermal expansion coefficient	mm/°C	$20x12^{-5}$	$20x12^{-5}$	$15x12^{-5}$	$15x12^{-5}$
Dielectric constant at 100 Hz	—	2,3	2,4	2,3	2,3
Water absorption at 23°C	%	< 0,05	< 0,05	< 0,20	< 0,20

1.For drainage perposes use the drain gate with outlet kit (available in two versions o100 and ϕ110)
N.B Waterprofing in order to encure the channels are waterproof, a bituminous adhesive sealant should be used
Heat-sealing the channel joints make sure there will be no leakegas through said joints for a very long time. For further info. please contact MANTRA DRAIN SOLUTIONS.
N.B. Sizes and weights are subject to usual manufacturing tolerance values.

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