DATA SHEET

KUSTOMFLO™



PRODUCT DESCRIPTION : Pipe with smooth interior wall

APPLICATION : Gravity flow of water in networks, water course piping and sanitary sewer.

MANUFACTURING STANDARDS : ASTM F894[1] or as required by project constraints.

RAW MATERIAL : Made of high-density polyethylene (HDPE) ASTM D3350

TECHNICAL DATA : Standard length : 6,1 m (20 ft)
Lengths available on request: 4,0 to 6,55 m (13.1 to 21,5 ft)
Ring stiffness constant : RSC250 or as required by project constraints

AVAILABLE JOINTS : Soil tight
Watertight
Electrofusion
Flange

TECHNICAL DATA TABLE[1]

Diameters						Manning	Mass[2]		Minimum backfill[3]						Maximum backfill[4]					
Nominal		Inside		Outside					CL-625		E80		E90		Class I[5]		Class II[5]		Class III[5]	
mm	in	mm	in	mm	in	n	kg/m	lb/ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft
600	24	610	24,0	716	28,2	0,009	40	27	0,61	2,0	0,61	2,0	Available on request		6,69	21,9	6,38	20,9	5,73	18,8
900	36	914	36,0	1021	40,2	0,009	58	39	0,61	2,0	0,61	2,0			5,69	18,7	5,27	17,3	4,72	15,5
1050	42	1067	42,0	1195	47,0	0,009	70	47	0,61	2,0	0,61	2,0			5,17	17,0	4,71	15,5	4,22	13,8
1200	48	1219	48,0	1367	53,8	0,009	93	65	0,61	2,0	0,61	2,0			6,14	20,1	5,73	18,8	5,05	16,6
1350	54	1372	54,0	1520	59,8	0,009	106	71	0,61	2,0	0,61	2,0			5,88	19,3	5,44	17,9	4,79	15,7
1500	60	1500	59,1	1650	65,0	0,009	115	77	0,61	2,0	0,61	2,0			5,93	19,5	5,49	18,0	4,83	15,8
1650	66	1676	66,0	1874	73,8	0,009	143	96	0,61	2,0	0,61	2,0			5,08	16,7	4,83	15,8	4,51	14,8
1800	72	1800	70,9	1998	78,7	0,009	153	103	0,61	2,0	0,61	2,0			4,95	16,2	4,68	15,4	4,38	14,4
2100	84	2100	82,7	2302	90,6	0,009	212	143	0,61	2,0	0,61	2,0			5,28	17,3	5,05	16,6	4,69	15,4
2400	96	2438	96,0	2686	105,8	0,009	263	177	0,61	2,0	0,61	2,0			5,20	17,0	4,96	16,3	4,61	15,1
2700	108	2743	108,0	2991	117,8	0,009	295	198	0,61	2,0	0,61	2,0			4,96	16,3	4,70	15,4	4,37	14,3
3000	120	3048	120,0	3326	130,9	0,009	350	235	0,61	2,0	0,61	2,0			4,84	15,9	4,57	15,0	4,25	14,0
3400	136	3454	136,0	3732	146,9	0,009	397	267	0,61	2,0	0,61	2,0			4,59	15,1	4,31	14,1	4,01	13,2

Note 1: This data sheet defines data for KustomFlo closed profile pipe, certified to ASTM F894, RSC250. KustomFlo pipe can also be adapted to the constraints of the project. Please contact your Soleno representative for different applications.

Note 2 : The indicated weights are approximate and may vary. Actual weights can be confirmed once the pipes have been manufactured.

Note 3 : Minimum backfill determined considering a Class I material, according to ASTM D2321.

Note 4 : Based on a structural analysis performed in accordance with Section 12 of the AASHTO LRFD, assuming no groundwater, slightly compact native soil (N = 8 to 15), pipe embedment material compacted to 95% of Standard Proctor density, an overall backfill density of 1,924 kg/m³ (120 pcf), a trench bottom width equal to 1.5 × Dext, and CL-625 vehicular loading. Any changes to these conditions require a review of the data presented. Greater burial depths may be evaluated upon request.

Note 5 : Classification of embedment materials of pipe in accordance with ASTM D2321.

Note 6 : Values in the table are approximate and may change without notice.

DATA SHEET

KUSTOMFLO™ (CONT'D)

APPLICATIONS :

- Detention system
- Culvert
- Culvert relining
- Intake/outfall
- Manhole and catch basin
- Storm water, sanitary and combined sewer
- Tank
- Custom projects
- Penstock
- Pumping station and access wells

INSTALLATION : Visit our website at www.soleno.com for the installation guide.