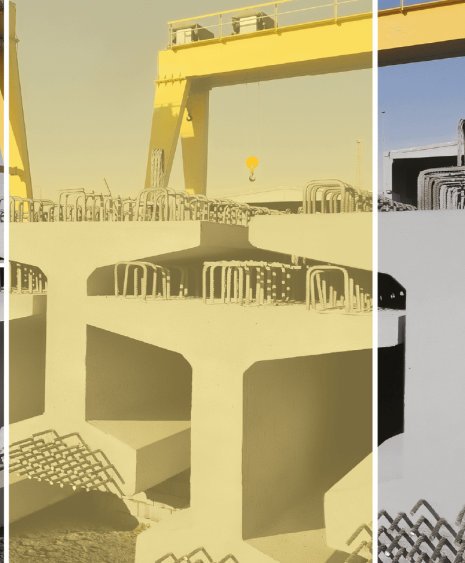


KAMBETON

INFRASTRUCTURE ELEMENTS



INFRASTRUCTURE ELEMENTS

- Prestressed Girders
- Flumes
- Chamber
- Pipes
- Manholes
- Box Culvert
- Chambers

PRESTRESSED GIRDERS

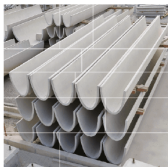
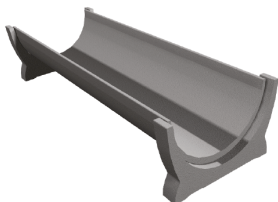
Produced using high-strength concrete and prestressing technology, these products are precast reinforced concrete elements with "I" cross-section, and they may be spanned up to 42 meters. Due to their quick production and assembly, quality, and low-cost features, prestressed reinforced concrete girders, which are custom designed for the project, provide an important advantage in bridge/viaduct constructions.

The transportation and assembly of the girders are carried out by Kambeton. Kambeton, which also designs the girders when required, also manufactures structural precast elements such as parapets, facade elements, etc. that complement the bridge/viaduct construction.



FLUMES

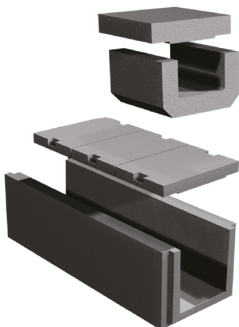
Flumes are one of the materials used to distribute water to agricultural lands. The flumes, which are classified into 9 groups according to their diameter and width, are produced in accordance with standards specified by the General Directorate of State Hydraulic Works.



TYPE	INSIDE DIAMETER (cm)	OUTSIDE DIAMETER (cm)	LENGTH (cm)	WEIGHT (kg)
100	32	40	500	525
135	37	45	500	625
180	44	53	500	735
230	52,46	60,46	500	855
315	67,62	75,62	500	950
450	90,82	99,62	500	1300
600	117,26	127,26	500	1590
800	145,39	155,23	500	2150
1000	159,89	169,85	500	2640

CHANNEL ELEMENTS

Cable and water channels used in railways, water and sewage lines.



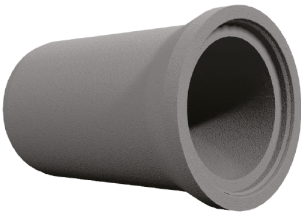
TYPE	WIDTH (cm)	HEIGHT (cm)	LENGTH (cm)	WEIGHT (kg)
Cable Channel	50	50	200	991
Cover	75	9	50	90
TCDD Cable Channel	41	23	40	54
TCDD Cover	41	8	40	35
Telephone Signal Foundation Block	30	40	50	153
Signal Foundation Block	50	50	50	325
Signal Foundation Block	60	70	100	1063
Barrier Control Panel Foundation Block	64	44	80	686
Barrier Signal Foundation Block	60	70	80	853
Barrier Foundation Block	96,5	110	83	1309
Water Channel	50	36	100	481
Water Channel	50	36	200	957
Water Channel	50	15	100	196
Water Channel Cover*	50	20	200	548

*Covers can be manufactured in lengths up to 450 cm.

PIPES

Pipes, which are produced in various sizes and compositions, are one of the indispensable elements of the urban infrastructure. They are produced in accordance with the standards and they are offered for sale after conducting special tests.

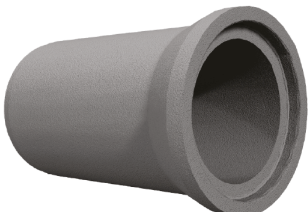
1. INTEGRATED GASKET PIPES



Concrete Pipes (1.5 meters)

INSIDE DIAMETER (mm)	THICKNESS (mm)	OUTSIDE DIAMETER (mm)	LENGTH (mm)	WEIGHT (kg)
150	34	218	1500	89
200	38	276	1500	125
300	50	400	1500	241
400	55	510	1500	364
500	62	624	1500	476
600	70	740	1500	645

2. ROLLONG GASKET PIPES



Concrete Pipes (1 meter)

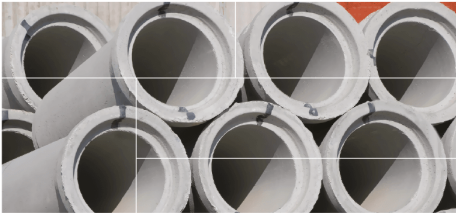
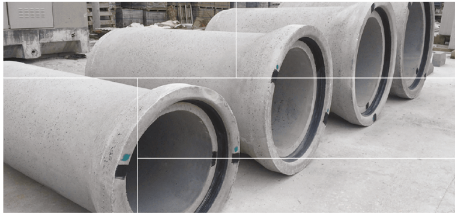
INSIDE DIAMETER (mm)	THICKNESS (mm)	OUTSIDE DIAMETER (mm)	LENGTH (mm)	WEIGHT (kg)
200	32.5	265	1000	80
300	45	390	1000	130
400	45	490	1000	195
500	65	630	1000	390
600	65	730	1000	430

Concrete and Reinforced Concrete Pipes (2 meters)

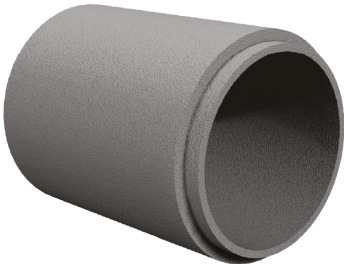
INSIDE DIAMETER (mm)	THICKNESS (mm)	OUTSIDE DIAMETER (mm)	LENGTH (mm)	WEIGHT (kg)
500	42	624	2000	625
600	70	740	2000	846
800	90	980	2000	1450
1000	115	1230	2000	2250
1200	120	1440	2000	2830

Concrete and Reinforced Concrete Pipes (2 meters)

INSIDE DIAMETER (mm)	THICKNESS (mm)	OUTSIDE DIAMETER (mm)	LENGTH (mm)	WEIGHT (kg)
500	65	630	2000	705
600	65	730	2000	805
800	90	980	2000	1450
1000	115	1230	2000	2250
1200	120	1440	2000	2830

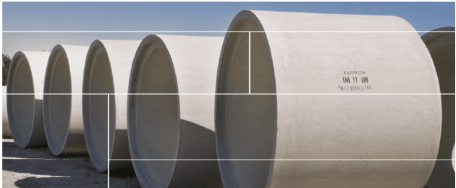


3. TONGUE AND GROOVE PIPES



Reinforced Concrete Pipes (2 meters)

INSIDE DIAMETER (mm)	THICKNESS (mm)	OUTSIDE DIAMETER (mm)	LENGTH (mm)	WEIGHT (kg)
1400	140	1680	2000	3390
1600	160	1920	2000	4435
1800	180	2160	2000	5600
2000	200	2400	2000	6915
2200	220	2640	2000	8380



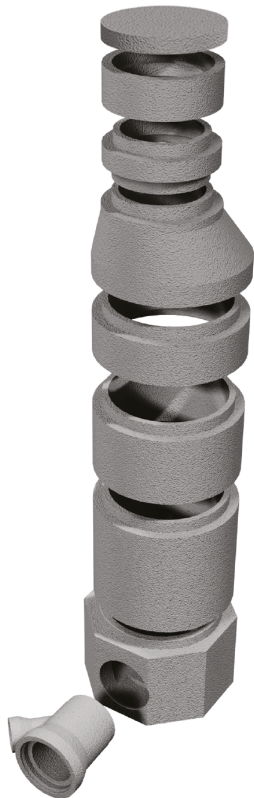
They are used at certain intervals for carrying rainwater and sewage wastewater. Also, they are used to canalize the water and to create a space for cleaning against blockages.

1. MANHOLE ELEMENTS WITH ROLLING GASKETS / INTEGRATED

TYPE	INSIDE DIAMETER (mm)	HEIGHT (cm)	WEIGHT (kg)
Manhole Cover B125/D400	620	10	201
Frame Support Element	620	20	203
Adjusting Ring	620	15	136
Manhole Conical (Taper) Section	1000	65	819
Manhole Shaft	1200	78	1130
(Body) Ring	1200	100	1196
Manhole Shaft	1000	60	674
(Body) Ring	1200	60	794
Manhole Shaft	1000	35	392
(Body) Ring	1200	35	464
Manhole Base Element*	1000	78	1637
	1200	107	3244

*Base Elements can be produced with 1 - 4 holes in Ø200-Ø400 diameter range for Ø1000 and Ø500-Ø600-Ø800 diameter range for Ø1200.

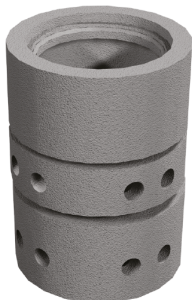
Parcel Elements with	WIDTH (cm)	LENGTH (mm)	HEIGHT (cm)	WEIGHT (kg)
Integrated Seals				
Parcel Cover	50	100	10	124
Parcel Body Section	80	80	25	238
	80	80	50	476
Parcel Manhole Base	80	80	60	841



Connection Element	INSIDE DIAMETER (mm)	2 INSIDE DIAMETER (mm)	LENGTH (mm)	WEIGHT (kg)
Saddle Branch	200	150	600	82
	300	150	600	129
	400	150	600	174
Bend	150	-	-	24
	150	-	750	36
Coupler	200	-	750	51
	300	-	750	98
	400	-	750	155
	500	-	750	195
	600	-	750	264

*The double-sided male threaded part that connects the base elements to the pipes.

2. FIBER OPTIC INSPECTION MANHOLES

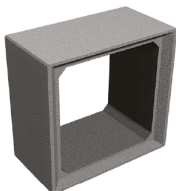


TYPE	INSIDE DIAMETER (mm)	HEIGHT (cm)	WEIGHT (kg)
Type 1 Additional Room	1000	105	1245
Type 10 Additional Room	660	105	668

BOX CULVERT

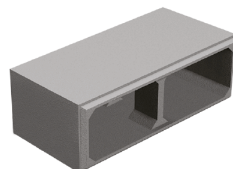
They are rectangular reinforced concrete elements that allow the passage of rainwater or streams under the motorway depending on the terrain.

1. SINGLE CELL BOX CULVERT



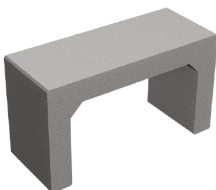
TYPE	WIDTH (cm)	HEIGHT (cm)	LENGTH (cm)	WEIGHT (kg)
Tip 1	100	100	100	1925
Tip 2	150	150	100	2882
Tip 3	150	150	200	5898
Tip 4	200	200	100	4510
Tip 5	250	250	100	6510

2. DOUBLE CELL BOX CULVERT



TYPE	WIDTH (cm)	HEIGHT (cm)	LENGTH (cm)	WEIGHT (kg)
Type 1	100	40	210	5500
Type 2	120	80	210	4400
Type 3	160	80	210	8125
Type 4	150	100	210	8233
Type 5	200	120	210	11810

3. U CHANNEL CULVERT

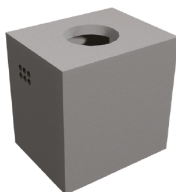


THICKNESS (cm)	WIDTH (cm)	HEIGHT (cm)	LENGTH (cm)	WEIGHT (kg)
35	230	135	120	6196

CHAMBERS

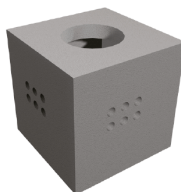
These products are used to make the connections of the cables of railways, internet service providers and utility electricity distribution companies.

1. COMMUNICATION CHAMBER



TYPE	WIDTH (cm)	HEIGHT (cm)	LENGTH (cm)	WEIGHT (kg)
Type 1	240	190	240	12485
Type 2	190	190	240	12400
Type 3	220	250	280	15840
Type 4	121	121	121	2399

2. STANDARD CHAMBER



TYPE	WIDTH (cm)	HEIGHT (cm)	LENGTH (cm)	WEIGHT (kg)
Type 1	150	150	150	3108
Type 2	160	160	160	5511
Type 3	180	130	140	8125

3. TCDD CHAMBER



WIDTH (cm)	HEIGHT (cm)	LENGTH (cm)	WEIGHT (kg)
120	120	65	5500



TSEK 118



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