



Data Sheet

Precast Concrete Septic Tanks

AUG 2023

V 0.0





Product Data Sheet

Precast concrete septic tank 25 m³



➤ Data:

NO.	MEASURE	UNIT	READING
1	Outer height	mm	3300
2	Inner height	mm	3000
3	Diameter	mm	3500
4	Wall thickness	mm	120
5	Slab thickness	mm	150
6	Ground thickness	mm	150
7	Total volume	m ³	25.04
8	Weight	T	17
9	Manhole Opening	cm ²	3600 (60*60)

➤ Materials:

1- Concrete:

NO.	Item	Description
1	Cement type	Sulphates Resisting Portland Cement (SRC)
2	Concrete type	35 MPa



• **Concrete mix design:**

NO.	Item	Quantity per m ³	Unit
1	Cement	450	Kg
2	3/8" Aggregate	600	Kg
3	Washed Sand	300	Kg
4	Silica(White) Sand	800	Kg
5	Plasticizer & Waterproofing	2.6-2.7	Liters
6	Water (Total)	190	Liters

- Note: Ice adds in summertime to the mix design.

• **Plasticizer & Waterproofing:**

- Product information:

Product Name	Sika® Plastocrete® N SA
Chemical base	Surface active agent and polymer
Packaging	200L drum, 1000 L flowbin
Appearance/Color	Dark brown liquid
Shelf life	12 months from date of production
Store condition	Store in undamaged, unopened, original sealed packaging in dry conditions at temperature +5 °C and +45 °C. Protect from direct sunlight and forst.
Density	1.11 kg/l (+25 °C)
Total Chloride Ion Content	Nil (EN 934-2)

2- Reinforced Steel Bars:

• **Mechanical Proprieties:**

Standard	SASO ASTM A615M	SASO ASTM A706M
Grade	420 (60)	420 (60)
Nominal diameter mm	12-20	12-20
Yield Strength MPa (min.)	420	420-540
Tensile Strength MPa (min.)	620	550
Tensile to yield Ratio (min.)	N/A	1.25
Elongation in 200 mm (min.)	9	14
Elongation (A5) (min.)	N/A	N/A
Agt % (min.)	N/A	N/A

- Chemical Composition of Steel bars:

Standard	Grade	Chemical Composition % (Maximum).							
		C	Si	Mn	S	P	N	Cu	C.E.V
SASO ASTM A615M	420 (60)	-	-	-	-	0.06	-	-	-
SASO ASTM A706M	420 (60)	0.3	0.5	1.5	0.045	0.035	-	-	0.55

3- Bitumen (External Coating):

Product Name	SABIT PRIMER D-41
Composition	is an asphaltic primer
Packaging	Supplied in 200 liters drums & 20 L cans..
Appearance/Color	Dark brown

➤ Dimension:

