

Static Calculation for Buried Pipelines

Calculation Request Form acc. to AWWA M45

Please send to:

SUBOR BORU SAN. VE TİC. A.Ş.
Acıbadem Mahallesi, Sokullu Sokak No:12
34718-Kadıköy/İstanbul/TURKEY T +90 (216) 474 19 00
sales@subor.com.tr | info@subor.com.tr

Date

Company

Contact Person

E-mail

Project

City/Country

Phone

Pipe Selection

DN

PN

SN

Project and Installation Parameters

Working Pressure	P_w	Bar	
Surge Pressure	P_s	Bar	
Vacuum	P_v	Bar	

Burial Depth

Maximum	h_{max}	m	
Minimum	h_{min}	m	
Trench Width	B_d	m	

Traffic Load

None / Yok		<input type="checkbox"/>	AASHTO HS25	89.000 N	<input type="checkbox"/>
ATV LKW 12	40.000 N	<input type="checkbox"/>	ATW SLW 60	100.000 N	<input type="checkbox"/>
ATV SLW 30	50.000 N	<input type="checkbox"/>	MOC 160	160.000 N	<input type="checkbox"/>
AASHTO HS20	72.000 N	<input type="checkbox"/>			
Other			Length of Footprint (mm)		Width of Footprint (mm)

Ground Water Effects

None	<input type="checkbox"/>	Watertable (m)	
------	--------------------------	----------------	--

Type of Native Soil

AWWA M45 Table 5-6

GRANULAR				COHESIVE			
Very, Very Loose (0 - 1 Blows / ft)	<input type="checkbox"/>	Slightly Compact (8 - 15 Blows / ft)	<input type="checkbox"/>	Very, Very Soft (0 - 13 kPa)	<input type="checkbox"/>	Stiff (100 - 200 kPa)	<input type="checkbox"/>
Very Loose (1 - 2 Blows / ft)	<input type="checkbox"/>	Compact (15 - 30 Blows / ft)	<input type="checkbox"/>	Very Soft (13 - 25 kPa)	<input type="checkbox"/>	Very Stiff (200 - 400 kPa)	<input type="checkbox"/>
Loose A (2 - 4 Blows / ft)	<input type="checkbox"/>	Dense (30 - 50 Blows / ft)	<input type="checkbox"/>	Soft (25 - 50 kPa)	<input type="checkbox"/>	Hard (400 - 600 kPa)	<input type="checkbox"/>
Loose B (4 - 8 Blows / ft)	<input type="checkbox"/>	Very Dense (> 50 Blows / ft)	<input type="checkbox"/>	Medium (50 - 100 kPa)	<input type="checkbox"/>	Very Hard (> 600 kPa)	<input type="checkbox"/>

Bedding Coefficient

AWWA M45 / Section 5.7.3.4

Proper Haunching	<input type="checkbox"/>	Inconsistent Haunching	<input type="checkbox"/>
------------------	--------------------------	------------------------	--------------------------

Type of Backfill Material

AWWA M45 / Table 5.4

SC1	Crushed rock with < 15% sand, maximum 25% passing the 10 mm sieve and maximum 5% fines				
	Dumped <input type="checkbox"/>	Compacted <input type="checkbox"/>			<input type="checkbox"/>
SC2	Clean, coarse-grained soils with < 12% fines				
	SP100 <input type="checkbox"/>	SP95 <input type="checkbox"/>	SP90 <input type="checkbox"/>	SP85 <input type="checkbox"/>	<input type="checkbox"/>
SC3	Clean, coarse-grained soils with 12% or more fines / Sandy or fine-grained soils with less than 70% fines				
	SP100 <input type="checkbox"/>	SP95 <input type="checkbox"/>	SP90 <input type="checkbox"/>	SP85 <input type="checkbox"/>	<input type="checkbox"/>
SC4	Fine grained soils with more than 70% fines				
	SP100 <input type="checkbox"/>	SP95 <input type="checkbox"/>	SP90 <input type="checkbox"/>	SP85 <input type="checkbox"/>	<input type="checkbox"/>