

STATIC LOADING & CALCULATION QUESTIONNAIRE

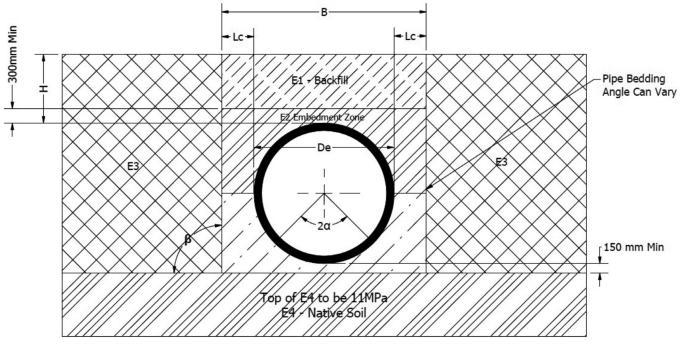
This form is to be filled out as best as possible as it will aid Solo ltd. in carrying out accurate static calculations for design and quoting purposes. The calculations are carried out in accordance with AS/NZS2566.1:1998 – Buried Flexible Pipelines: Structural design and the installation parameters used are in accordance with AS/NZS 2566.2:2002 – Buried flexible pipelines – Installation.

Project Name:			Custom	er:			
Contact Person:			Email: _				
Ph:		. Delivery Ado	dress:				
Pipe Specificat	tion D	etails:					
Material: PE100		Polypropylene	Polypropylene				
Joint/Connection:	☐ Ele	ectrofusion	Rubber Ring		Butt Welded	Extrusion Welded	
Inner Colour:	Bla	nck	Yellow		Grey	Blue	
Pipe Dimensio	ns:						
Internal Diameter:			_ mm	SN Ra	ating (if required)):	
Outside Diameter:		_ mm	SDR/PN (if required):				
Loads							
Flow medium:					-		
Density:					g/cm³		
Operating Tempera	ature:	Minimum: _			- °C		
		Maximum: _			- °C		
Operating Pu:					bar (otherwise u	unpressurised)	
Service Life:	<u></u> 50	years	100 years	Те	emporary Works		
Vehicle Loading:	ПНИ	I/HO72	None	Sp	pecial	Construction	
Additional Structural loading:				. N/mn	n²		
Water filling (Tank	or Stora	ige System):	Yes No				
Notes:							





INSTALLATION – TRENCH (OPEN CUT)



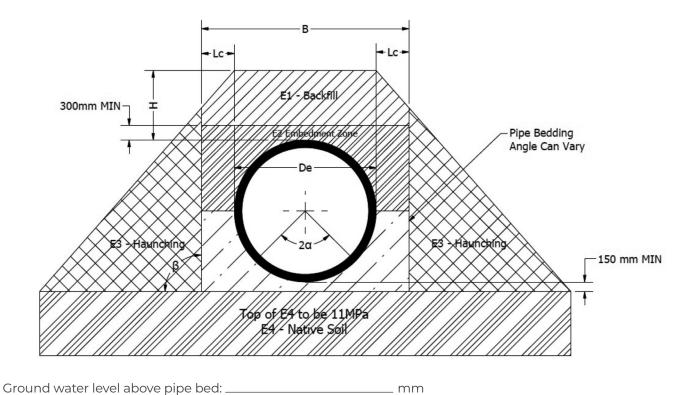
Ground water level above pipe bed	_ mm						
Trench width at Pipe Crown (B): Note: This is determined by AS/NZS 2566			. mm - Installation, bu	it specify if the	ere are site res	strictions.	
Trench Cut/Slope Angle (β):	90	120	<u> </u>				
Pipe Bedding Support Angle (2α):	90	120	<u> </u>				
Soil Cover Height above crown (H):	Maximum .		r	mm			
	Minimum _		r	mm			

Soi	l type – See Backfill Material Classifica	El	E2	E3	E4	
	G1 – non cohesive (sand, gravel)			G1 📗	G1 🗌	G1 🗌
GROUP	G2 – slightly cohesive (sand, gravel)	G2 🗌	G2*	G2 🗌	G2 🗌	
GRC	G3 – cohesive mixed soil, coarse clay			G3*	G3 🗌	G3 🗌
	G4 – clay, loam *Note: In zone E2 preferably use material (G1)			G4*	G4 🗌	G4 🗌
Density Grade of density (85% - 100%)		kg/m³				
Preferably ≥95% E-Modulus EB		N/mm²				





INSTALLATION – BANK



Trench width at Pipe Crown (B):										
Trench Cut/Slope Angle (eta):					180					
Pipe	Bedding Support Angle (2 a):		180							
Soil Cover Height above crown (H): Maximum					mm					
		Minimur	m			mm				
Soi	l type – See Backfill Material C	:lassificat	tion Table on page	e 4	ΕΊ	E2	E3	E4		
	G1 – non cohesive (sand, grav	vel)			G1 🗌	G1 🗌	G1 🗌	G1 🗌		
G2 – slightly cohesive (sand, gravel)					G2 🗌	G2*	G2 🗌	G2 🗌		
G2 – slightly cohesive (sand, gravel) G3 – cohesive mixed soil, coarse clay					G3 🗌	G3*	G3 🗌	G3 🗌		
G4 – clay, loam *Note: In zone E2 preferably use material (G1)					G4 🗌	G4*	G4 🗌	G4 🗌		
Den Grad	nsity de of density (85% - 100%)		kg/m³							
Preferably ≥95%			N/mm²							



E-Modulus EB



TECHNICAL INFORMATION

BACKFILL MATERIAL CLASSIFICATION TABLE:

	COHESIVE BACKFILL		
G1	G2	G3	G4
Graded Crushed Rock River Gravel and Beach Gravel	Valley SandDrift & Basin SandDune SandBeach Sand	Weathered GravelClayey GravelLoamy SandLiquid SandAlluvial Clay	ClayLoessLoamAlluvial Marl

SOIL TYPES:

GROUP – SOIL ZONES AS PER DRAWINGS	SOIL DENSITY (KN/M3)			MODULUS OF ELASTICITY IN N/MM2 AT VARIOUS COMPACTIONS RATES/MDD						
BRAWINGS	(KN/M3)	ANGLE		85	90	92	95	97	100	
G1	20	35		2.0	6	9	16	23	40	
G2	20	30		1.2	3	4	8	11	20	
G3	20	25		0.8	2	3	5	8	13	
G4	20	20		0.6	1.5	2	4	6	10	

SECURITY CLASS:

Security Class A	Security Class B				
Definition:	Definition:				
Danger to ground water	 No danger to ground water 				
 Impairment of serviceability 	 Little impairment of serviceability 				
Breakdown has considerable	 Breakdown has little economic 				
economic consequence.	consequence.				



