

Wavin Pipe Deformation

Calculation Summary in accordance with BS EN 1295



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Project and Site Details

Project Name Pipe Deformation Project

Produced By Admin 3

Client Name Wavin

Site Address Parsonage Way, Chippenham, SN15 5PN

Date 01/01/1970

Calculation Reference - Pipe Calc 1

Long Term Deformation	1.7813%
Deformation not to exceed 6%	
Fs Factor of Safety against Bucling >= 2	6.19

Calculation Values - Pipe Calc 1

Pipe Diameter	
Cover Depth	1.20m
Loading	Main

Bedding and Surrounding Material

Based on single sized or graded gravel

Compaction of Bedding and Surrounding Material

Based on 85% modified proctor

Calculations in accordance with BS EN 1295

$$\frac{Kx ((DI Pe) + Ps)}{8EI/D^3 + 0.061E'}$$

Calculation Values

Pe (Soil Load)	2.59 kN/m ²
Ps (Traffic Load on Pipe)	7.7 kN/m ²
EI/D³ (Long Term Pipe Stiffness)	4 kN/m ²
Kx (Deflection Coefficient)	0.083
DL (Deflection Lag Factor)	1

Calculations are based on BS EN 1295 and are for guidance only. All calculations are subject to verification by a suitable qualified Civil Engineer.