

You entered

pipe diameter (mm): **1350**

cover depth (m): **3.00**

f_{se} : **1.50**

road type: **Light Road**

Results

total external load w_e = **151.00kn/m**

designed strength of pipe f_n (also known as w_t) = **162kn/m**

the required bedding factor f_m = **1.4**

The designer may use **Class F, B or S bedding**

note: caution should be exercised when installing a pipe using classes f or n. the contractor will need to insure that the ground is adequately stable to support a class f or n pipeline bedding

Notes:

(1) Cover depths are rounded up to the nearest 0.20m, e.g. cover depth 2.65m is rounded to 2.80m.

* The calculations are based on recommended trench widths ranging from 0.7 metres for a DN225 pipe, up to 4.15 metres for a DN3000 pipe. Designers will have to refer to the TRRL tables to learn more about the trench widths assumed.

** The calculator accounts for pipes sizes between DN225 and DN3000 only.

*** Pipes at depths under 0.9 metres or over 8 metres might need special consideration and, therefore, not accounted for in this calculator. Please contact CPSA for advice.

Disclaimer::

Whilst every care is taken to ensure the accuracy of the "Structural Design Calculator", CPSA cannot accept any liability arising from its use. It is offered as a guide, and not a substitute for the services of a suitably qualified engineer.