

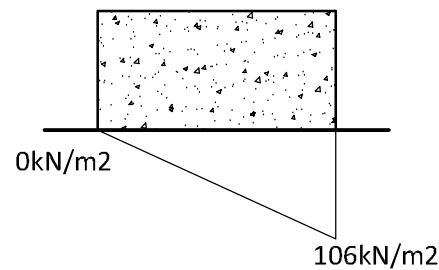
Important Note - The retained material should be allowed to naturally fall against the wall as it is stacked. Do not allow the retained material to stand up on its own as this could lead to a catastrophic failure of the material and the wall. The wall has not been designed to withstand the impact of the retained material suddenly falling against the wall due to incorrect loading.

Aggregate
 AoR = 35 degrees
 Maximum Density
 24.5 kN/m³ (2450kgs/m³)
 MAXIMUM SLOPE OF MATERIAL - 15 Degrees
 MAXIMUM HEIGHT OF MATERIAL - 2.6m
 FoS - Overturning 2
 Fos - Sliding 1.5

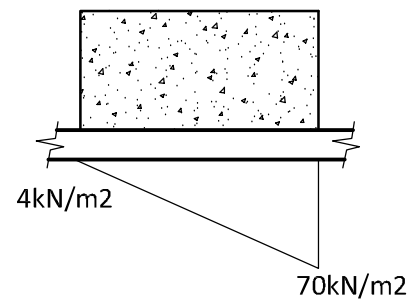
Note - Allowable loads are the same for Side, Back and Division walls

Allowable Wall Loads (1:50)

NOTE:-
 The bearing pressure beneath the wall is shown below. **It is up to the client to ensure the ground and slab is adequate**, alternatively a foundation may be designed to suit allowable ground bearing pressures if required.



Bearing Pressure Directly Beneath Wall



Bearing Pressure Beneath 250mm slab

NOTE:-
 Slab pressures assume slab extends at least 300mm from edge of block

Bearing Pressures (1:50)


- NOTES:-
- The contractor should take all necessary measurements on site.
 - All dimensions shown on this drawing are approximate and for structural calculation purposes only.
 - Dimensions on this drawing should not be used for fabrication purposes.
 - Do not scale this drawing.
 - This drawing should be read in conjunction with the calculations.

IMPORTANT NOTE
 The existing slab and ground have not been investigated by CLP structures, the pressures exerted on the ground and slab are shown on this drawing, however **It is up to the client to satisfy himself that the existing ground and slab are adequate to support these loads.**

IMPORTANT NOTE
 The wall should be inspected monthly for signs of movement. No personnel should under any circumstances be within the 'fall zone' of this type of structure whilst loading and unloading of material is taking place.

IMPORTANT NOTE
 The wall has been designed to retain a specific material with a specific density and angle of repose. It is up to the client to ensure that the material retained on site does not exceed these designed parameters, failure to do so may result in the collapse of the wall.

Rev	Description	By	Date	Chk'd
Purpose of Issue	Rev	Date	Auth	



CLP Structures
 STRUCTURAL ENGINEERING CONSULTANTS
 EMAIL: mail@CLP-Structures.co.uk
 TEL: 0117 3706357

Client	Elite Precast Concrete		
Project	Heathrow Airport Block Wall Bunker		
Title	Existing Wall Allowable Loads		
Original Scale As noted	Drawn CEL Date Sept 2023	Rev - Checked	
Drawing Number	993-001		