Design Parameters (1:50)

800

Maximum surcharge - 10kN/m2
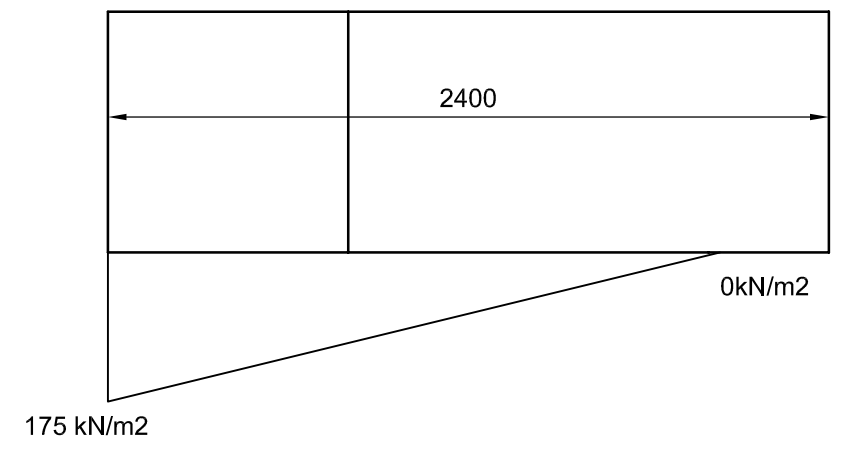
4000 MAX.

4800

1600

2400

2500

350

Important Note - The backfill should be granular and free-draining with no hydrostatic pressure build-up allowed. The top block should be protected against vehicular impact.
Backfill should be compacted in maximum 300mm thick layers - compacting machinery should not come into contact with wall.

Retained Material:-
Earth
AoR = 30 degrees
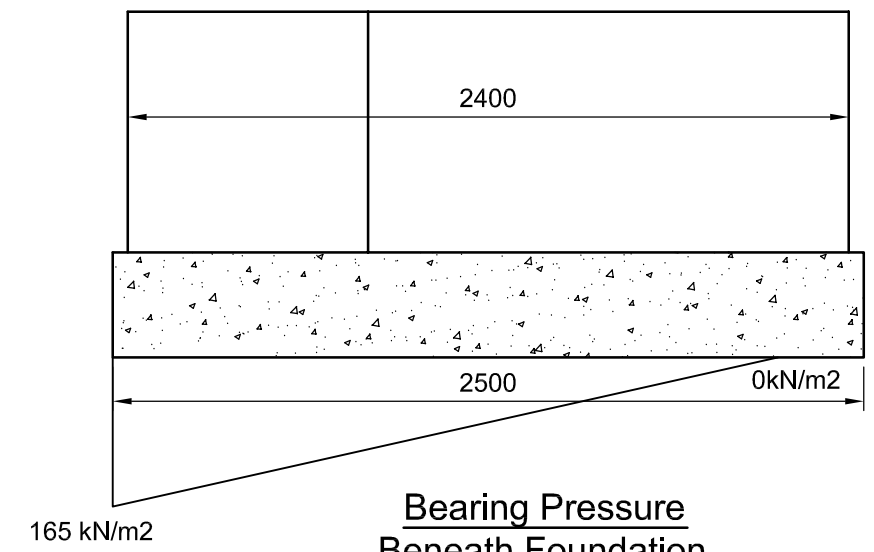Maximum Density
18 kN/m3 (1800 kgs/m3)
Surcharge - 10kN/m2

It is up to the client to advise if these parameters are not correct.

NOTE:-
The bearing pressure beneath the wall is shown below. An indicative foundation is shown.
The foundation is a Contractor Designed Element. It is up to the client to ensure the ground and foundation is adequate.

2400

0kN/m2

175 kN/m2

Bearing Pressure Directly Beneath Wall

2400

2500

0kN/m2

165 kN/m2

Bearing Pressure Beneath Foundation

IMPORTANT NOTE:-
Overall wall and foundation will need to utilise passive resistance to sliding. It is assumed that the material in front and above the foundation

Bearing Pressures (1:25)

Rev	Description	By	Date	Chk'd

Purpose of Issue	Rev	Date	Auth

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Client
Elite Precast Concrete Ltd.

Project
Elite Legoblock Wall

Title
Retaining Wall
Wall Design Parameters
and Limitations

Original Scale	Drawn	Rev — Checked
As noted	CEL	
	Date Aug 16	

Drawing Number
516-06

A3