

Allowable impact load speed based on:-

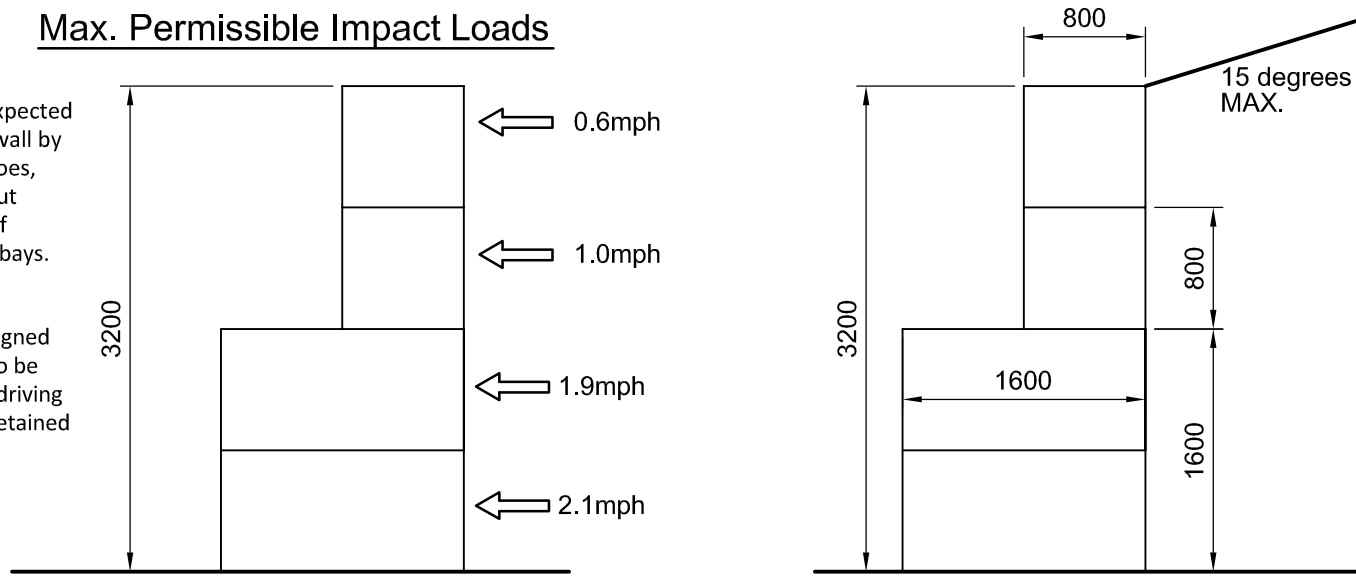
Vehicle (Maximum operating weight 20t)

Total allowable deflection - 100mm.

**Max. Permissible Impact Loads**

NOTE:- Impact loads are the expected loads imposed on the wall by loading shovels, backhoes, buckets etc. carrying out NORMAL procedures of loading and unloading bays.

NOTE:- Wall has **not** been designed for retained material to be compacted by vehicle driving over or on top of the retained material.



**Design Parameters (1:50)**

**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.

**Retained Material:-**  
Gravel sloped at a maximum of 15 degrees.  
AoR = 30 degrees  
Maximum Density 18 kN/m<sup>3</sup> (1800 kgs/m<sup>3</sup>)

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

**NOTES:-**

1. The contractor should take all necessary measurements on site.
2. All dimensions shown on this drawing are approximate and for structural calculation purposes only.
3. Dimensions on this drawing should not be used for fabrication purposes.
4. Do not scale this drawing.
5. 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.**

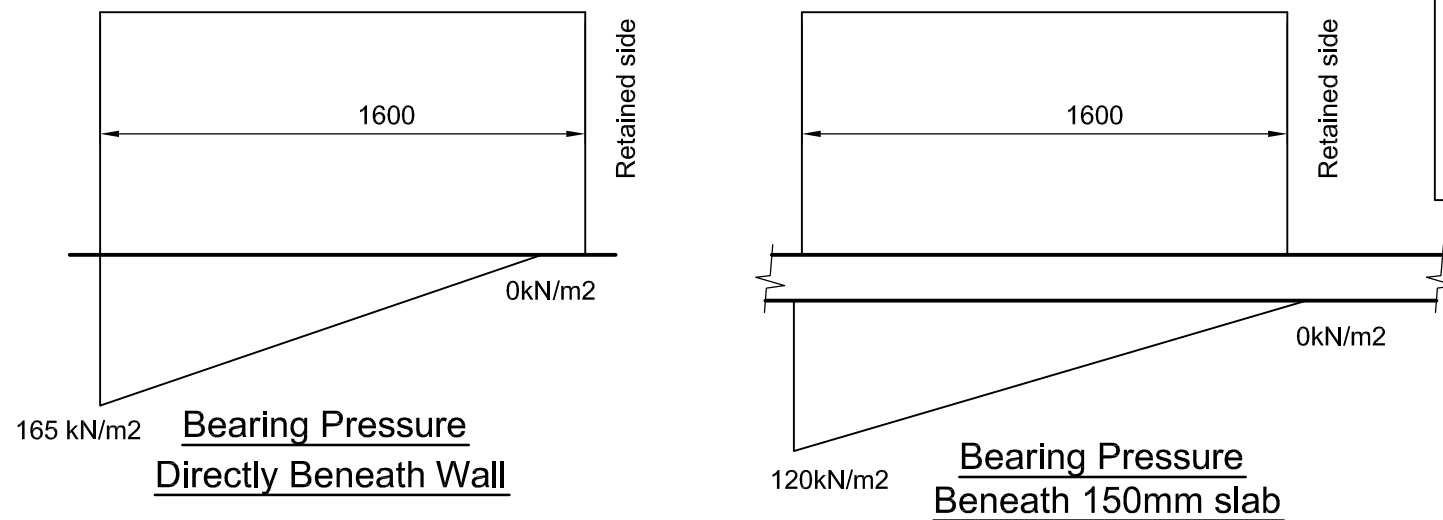
**IMPORTANT NOTE**

The wall 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

**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 Pressures (1:25)**

**IMPORTANT NOTE:-**

The wall fails on sliding (when restrained by friction only) therefore additional restraint to resist sliding must be employed such as dowels, kerbs, or angles.



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Client	
Elite Precast Concrete Ltd.	
Project	
Railfreight Services Elite Legato Wall	
Title	
3.2m High Legato Wall Design Parameters and Limitations	
Original Scale As noted	Drawn CEL Date Aug 16
Rev - Checked	
Drawing Number 540-01-001	