

Allowable impact load speed based on:-

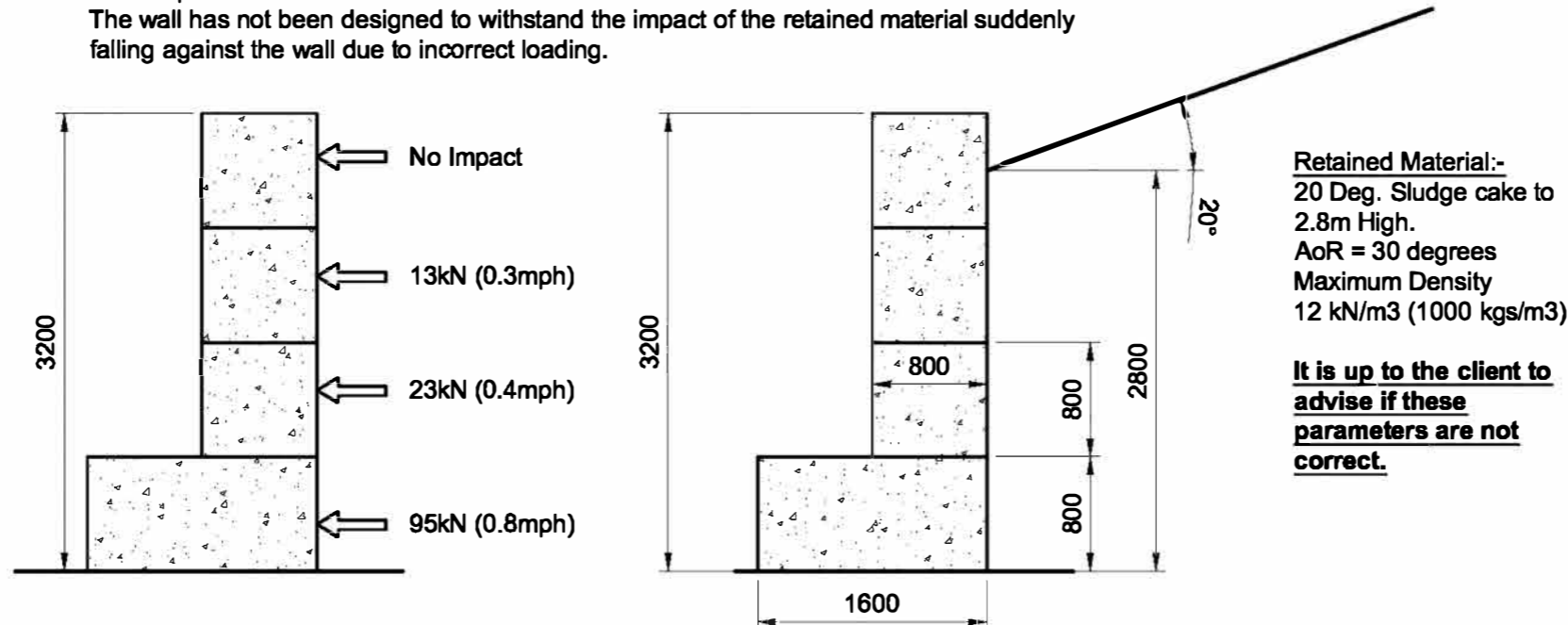
Vehicle (Maximum operating weight 15t)

Total allowable deflection - 10mm.

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.

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.



Design Parameters - Typical Wall (1:50)

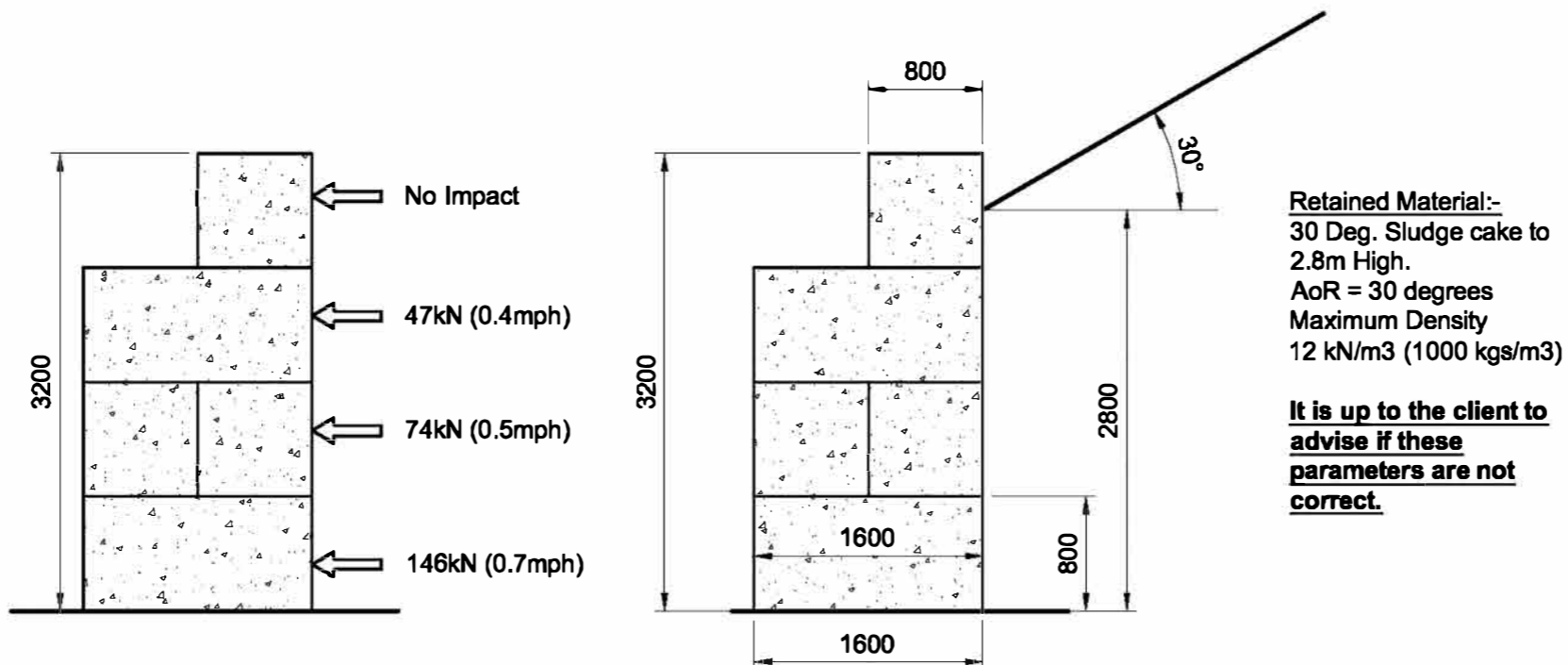
Allowable impact load speed based on:-

Vehicle (Maximum operating weight 15t)

Total allowable deflection - 5mm.

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 - Conveyor Position (1:50)

Important Note:-

Impact loads are calculated using anticipated deflection which is a theoretical value based on the deflection of the vehicles bucket, bucket support, tyres etc. plus the wall deflection. Due to the varying nature of the vehicle impact the actual load imposed on the wall may vary (hence a minimum factor of safety of 2 being applied). However it is not practical to fully mitigate against all types of impact especially from heavy vehicles and some damage may occur if the anticipated load is exceeded. Therefore it is the designers recommendation that impacts be kept to a minimum speed as possible and that operators are sufficiently trained to ensure that minimal impact is imposed upon the wall during loading and unloading of the bays.

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

it is up to the client to satisfy himself that the existing piled slab is adequate to support the wall loads shown in the calculations.

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	



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Client	Elite Precast Concrete Ltd.		
Project	Sludge Cake Wall Elite Legato Blocks		
Title	Wall Design Parameters and Limitations		
Original Scale As noted	Drawn CEL Date June 20	Rev - Checked	
Drawing Number		803-01	