

**Black Bag Waste:-**  
 Maximum slope = 30 degrees  
 AoR = 30 degrees  
 Maximum Density = 3.5 kN/m<sup>3</sup> (350 kgs/m<sup>3</sup>)

**Light Waste including:-  
 Loose Scrap Metal, Compost & Loose wood:-**  
 Maximum slope = 25 degrees  
 AoR = 30 degrees  
 Maximum Density = 6 kN/m<sup>3</sup> (600 kgs/m<sup>3</sup>)

**Glass:-**  
 Max. slope = 20 degrees  
 AoR = 30 degrees  
 Maximum Density = 10 kN/m<sup>3</sup> (1000 kgs/m<sup>3</sup>)

**Sand:-**  
 Max. slope = 15 degrees  
 AoR = 30 degrees  
 Maximum Density = 15 kN/m<sup>3</sup> (1500 kgs/m<sup>3</sup>)

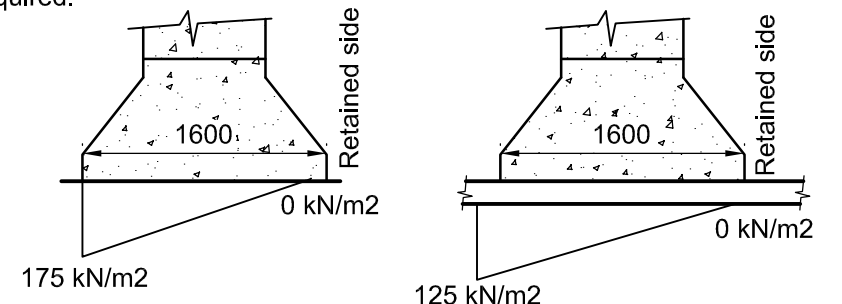
**Aggregates:-**  
 Max. slope = 15 degrees  
 AoR = 30 degrees  
 Maximum Density = 18 kN/m<sup>3</sup> (1800 kgs/m<sup>3</sup>)

**Important Notes -**

1. These loading figures are guidelines only. It is recommended that all walls be individually designed by a suitably experienced Structural Engineer.
2. 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.
3. These loading tables relate to specific materials with a typical density and angle of repose, stacked to specific heights and slopes. It is up to the client to ensure that the material retained on site does not exceed these parameters, failure to do so may result in wall instability.
4. The client should ensure that the walls are built on a suitable material.
5. The densities and angle of repose of each materials shown are 'typical' values only. Material densities vary and it is up to the client to ensure that the retained material does not exceed the recommended parameters.

**Note:-**  
 Additional retaining capacity can be achieved by adding additional 1600mm wide blocks at the base.

**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** (1:50) A3

- 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.

**Note:-**  
 Please open the Stability and Loadings Calculation Directory to see specific design examples.

**Design Parameters - 4.8m High Legato**  
 (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 Legato Retaining Wall  
 4.8m High With Spreader

Title  
 Wall Design Parameters  
 and Limitations

Original Scale As noted	Drawn CEL Date Nov 16	Rev - Checked
Drawing Number 540-08-006		A