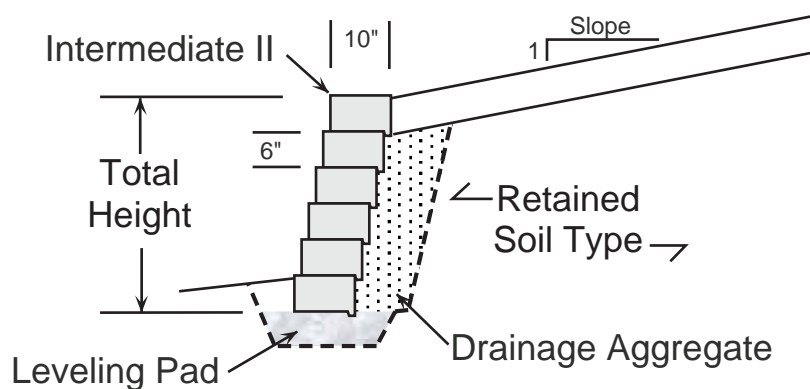


DESIGN GUIDELINES Intermediate II (6"H x 16"W x 10"D)



GRAVITY WALL (1-1/3" min. setback per unit)

INTERMEDIATE II UNITS Maximum Design Heights

Max. Hgt. Soil Type ↓	Backslope			
	Level	4H:1V	3H:1V	2H:1V
Sand/Gravel	3.0'	3.0'	2.5'	2.0'
Silty Sand	3.0'	2.5'	2.0'	1.5'
Silt/Lean Clay	2.5'	2.0'	1.5'	1.0'

Notes: Calculations assume a unit weight of 120 lbs/cf for all soil types. Assumed ϕ angles for earth pressure calculations are: Sand/Gravel=34°, Silty Sand=30°, and Silt/Lean Clay=26°. Non critical structures with SF>1.5.

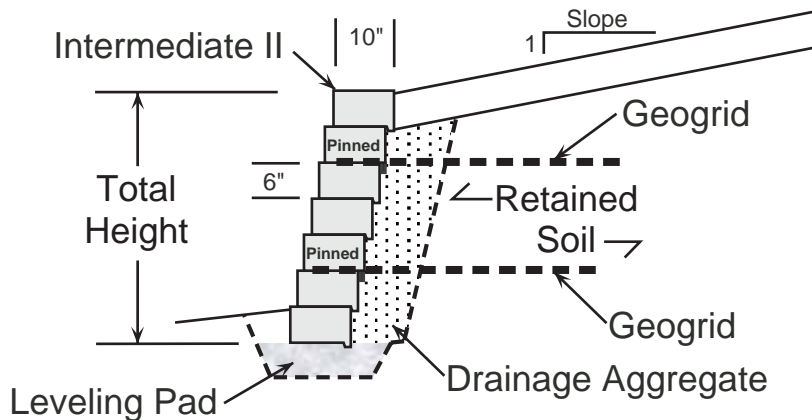
No additional surcharge loadings are included. Surcharges or special loading conditions will reduce maximum gravity wall heights. Sliding calculations assume a 6" granular levelling pad as compacted foundation material.

The information provided is for preliminary design use only. A qualified professional should be consulted. Keystone accepts no liability for the improper use of these tables.

DESIGN GUIDELINES

Intermediate II

(6"H x 16"W x 10"D)



GEOGRID REINFORCED WALL

(1-1/3" min. setback per unit)

TYPICAL GEOGRID REINFORCEMENT LAYOUT

Notes: In most cases and for simplicity, geogrid reinforcement lengths can be set approximately equal to wall height as measured from the front face of the wall unit assuming that the backslope will be no steeper than 3H:1V and the compacted backfill soils will exhibit a minimum shear strength of $\phi = 30^\circ$ (sandy loam or better and not consisting of heavy clays or unsuitable materials). Calculations assume a unit weight of 120 lbs/cf for all soil types. Non critical structures with $SF > 1.5$.

Geogrid reinforcement material shall be a lightweight woven geogrid equivalent or stronger than Mirafi 2XT which was utilized in the testing and analysis. Geogrid shall be installed with the strong direction placed perpendicular to the wall face and in accordance with the manufacturer's recommendations. Geogrid levels shall not be placed vertically greater than three unit courses (1'-6").

Intermediate II units require that the rear lips be removed and pins inserted directly above the geogrid level as shown to position the unit and secure the geogrid material.

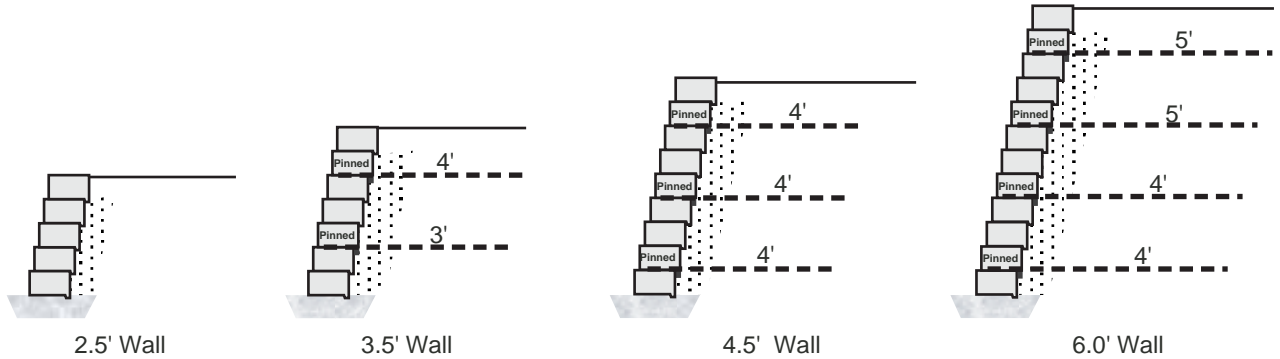
The information provided is for preliminary design use only. A qualified professional should be consulted. Intermediate II units are not intended for tall walls ($H < 6'$) or surcharge load bearing structures. All recommendations in the Keystone Construction manual shall be followed. Keystone accepts no liability for the improper use of these proposed layouts.

Intermediate II

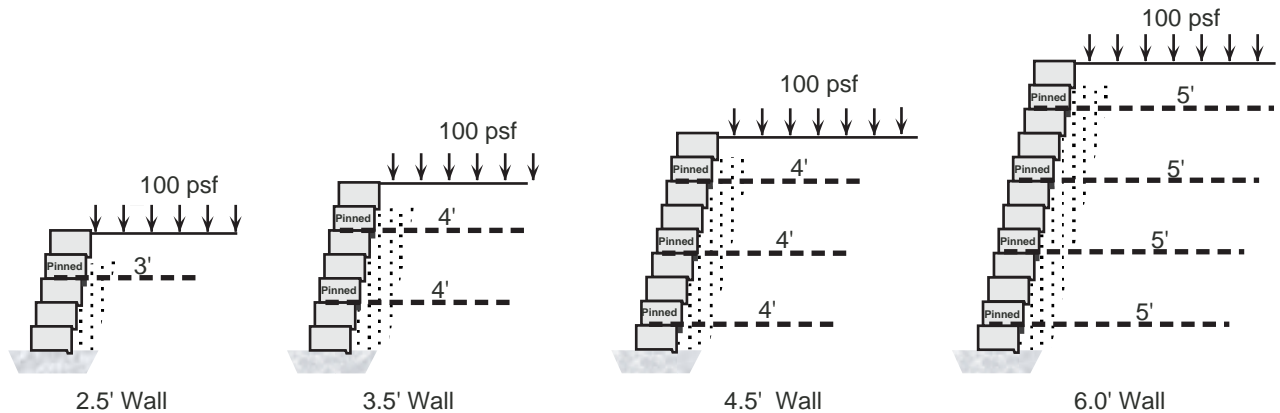
GEOGRID REINFORCED WALL LAYOUT

(1-1/3" min. setback per unit)

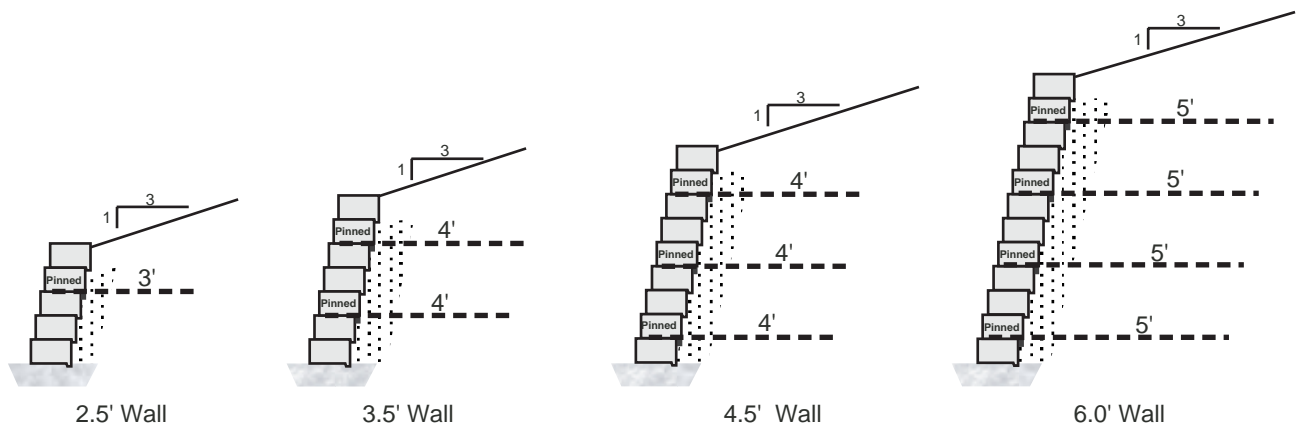
(Soils assumed $\Phi = 30^\circ$ or better)



TYPICAL GEOGRID REINFORCEMENT LAYOUT - NO SURCHARGE



TYPICAL REINFORCEMENT LAYOUT - 100 PSF LEVEL SURCHARGE



TYPICAL REINFORCEMENT LAYOUT - 3H:1V SLOPING SURCHARGE

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